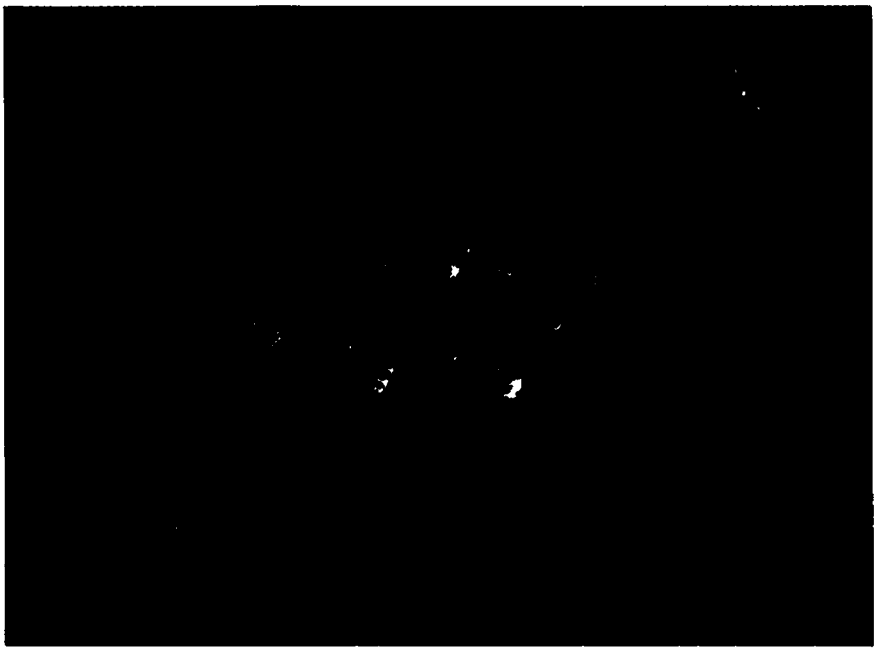
SONY

3-755-410-22 (1)



Trinitron® Color TV

Operating Instructions for 2 models

Before operating the TV, please read this manual thoroughly and keep it for future reference.

KV-27XBR95S KV-32XBR95S

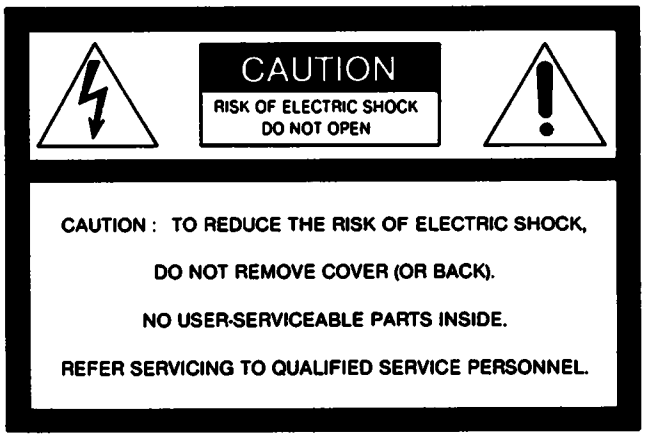
© 1992 by Sony Corporation

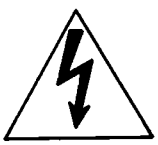
Preface

Precautions

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

CAUTION:
TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS POLARIZED AC PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

ATTENTION:
POUR PREVENIR LES CHOCS ELECTRIQUES, NE PAS UTILISER CETTE FICHE POLARISEE AVEC UN PROLONGATEUR, UNE PRISE DE COURANT OU UNE AUTRE SORTIE DE COURANT, SAUF SI LES LAMES PEUVENT ETRE INSEREES A FOND SANS EN LAISSER AUCUNE PARTIE A DECOUVERT.

Use of this television receiver for other than private viewing of programs broadcast on UHF or VHF or transmitted by cable companies for the use of the general public may require authorization from the broadcaster/cable company and/or program owner.

Safety

- Operate the TV only on 120 V AC.
- One blade of the plug is wider than the other for safety purposes and will fit into the power outlet only one way. If you are unable to insert the plug fully into the outlet, contact your dealer.
- If you spill or drop anything liquid or solid into the cabinet, unplug the TV and have it checked by qualified personnel before operating it any further.
- Unplug the TV from the wall outlet if you are not going to use it for several days or more. To disconnect the cord, pull it out by the plug. Never pull the cord itself.

Installing

- To prevent internal heat build-up, do not block the ventilation openings.
- Do not install the TV in a hot or humid place, or in a place subject to excessive dust or mechanical vibration.

Cleaning

Clean the TV with a soft dry cloth. Never use strong solvent such as thinner or benzine, which might damage the finish of the cabinet.

Repacking

Keep the original carton and packing materials to safely transport the TV in the future.

If you have any questions or problems concerning the TV, contact your nearest Sony dealer.

For detailed safety precautions, see the leaflet "IMPORTANT SAFEGUARDS" included with this manual in the vinyl bag.

Note to CATV system installer in the USA
This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Owner's Record

The model and serial numbers are located at the rear of the TV. Record these numbers in the spaces provided below. Refer to them whenever you call your Sony dealer regarding this product.

Model No. _____

Serial No. _____

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Welcome

Welcome to the Sony XBR series. By following the instructions in this manual, you will be able to enjoy the advanced technology which brings you useful features and high quality viewing.

About the manual

This manual covers two models, KV-27XBR95S and KV-32XBR95S. The illustrations are based on model KV-32XBR95S, but the only difference between the two is size. All of the displays and functions are the same for both models.

We highly recommend that you read this manual before using your TV, to set up and make connections safely and to make maximum use of the many functions. Then keep the manual handy for future reference.

Features

Sony's unique features

- The multi-band VHF/UHF/CATV tuner lets you receive up to 125 cable channels, for a total of 181 possible off-air and cable channels.
- The built-in Multichannel TV Sound (MTS) decoder lets you receive stereo programs and Second Audio Program (SAP) broadcasts.
- You can receive superior VCR playback by connecting a VCR with an S video output jack to the S VIDEO IN jacks.
- You can receive hi-fi sound by connecting an audio system to the audio output jacks.

XBR series special features

- Automatically preset all receivable channels with AUTO PROGRAM.
- Switch quickly between two channels, using JUMP.
- Watch another TV channel, video or cable image as a window picture, using Picture-in-Picture.
- Operate the TV, plus Sony and most other manufacturers' video equipment, a cable converter box and a Sony multi disc player with the supplied Remote Commander, using the Pre-Programmed feature.
- Program the supplied Remote Commander to operate the equipment of manufacturers whose code is not pre-programmed, using the Learning feature.
- Call up on-screen menus to set time-related functions (ON/OFF TIMER, CHANNEL BLOCK, DAYLIGHT SAVING), to customize the screen (CH CAPTION, VIDEO LABEL) and to adjust the picture and sound.

XBR series advanced technology

- The DSP (Digital Sound Processor) Axis™ Sound System gives you a choice of sound modes, for user-controlled environments enhanced by detachable speakers that can be positioned on or near the TV.
- Dynamic Picture™ system adjusts picture contrast automatically to produce more detail in both bright and dark areas of the picture.
- Velocity Modulation (VM) circuitry produces clean and sharp black and white contrasts.
- Dynamic Focus™ circuitry automatically focuses the scanning electron beam for enhanced sharpness over the entire picture, especially at the corners.
- Trinitone™ control allows you to adjust the picture's color temperature (tint) for the best possible color.
- Digital Intelligent Color Pure Filter™ circuitry provides high resolution without dot crawl or color spill, and improves weak signal picture performance, for a noise reduction effect.

Unpacking

1 Carefully follow the instructions on the outside of the packing carton to unpack the TV.

Notes

- The supplied accessories are packed in the upper part of the carton. Be sure not to throw them away.
- Keep the original carton and packing materials to safely transport the TV in the future.

2 Check to make sure that all the supplied accessories are included:

- Universal Remote Commander RM-Y114 (1) with 2 size AA (R6) EVEREADY batteries
- Detachable speaker parts
  - Speaker boxes (L/R)
  - Speaker box brackets (L/R)
  - Adhesive pads (8)
  - Bolts (rubber padded) (8)
  - Bolts (non-rubber padded) (8)
  - Speaker cords (2)

If any accessories are missing, contact your dealer.

3 Place the TV in a cool, dry place where the ventilation openings at the sides are not blocked.

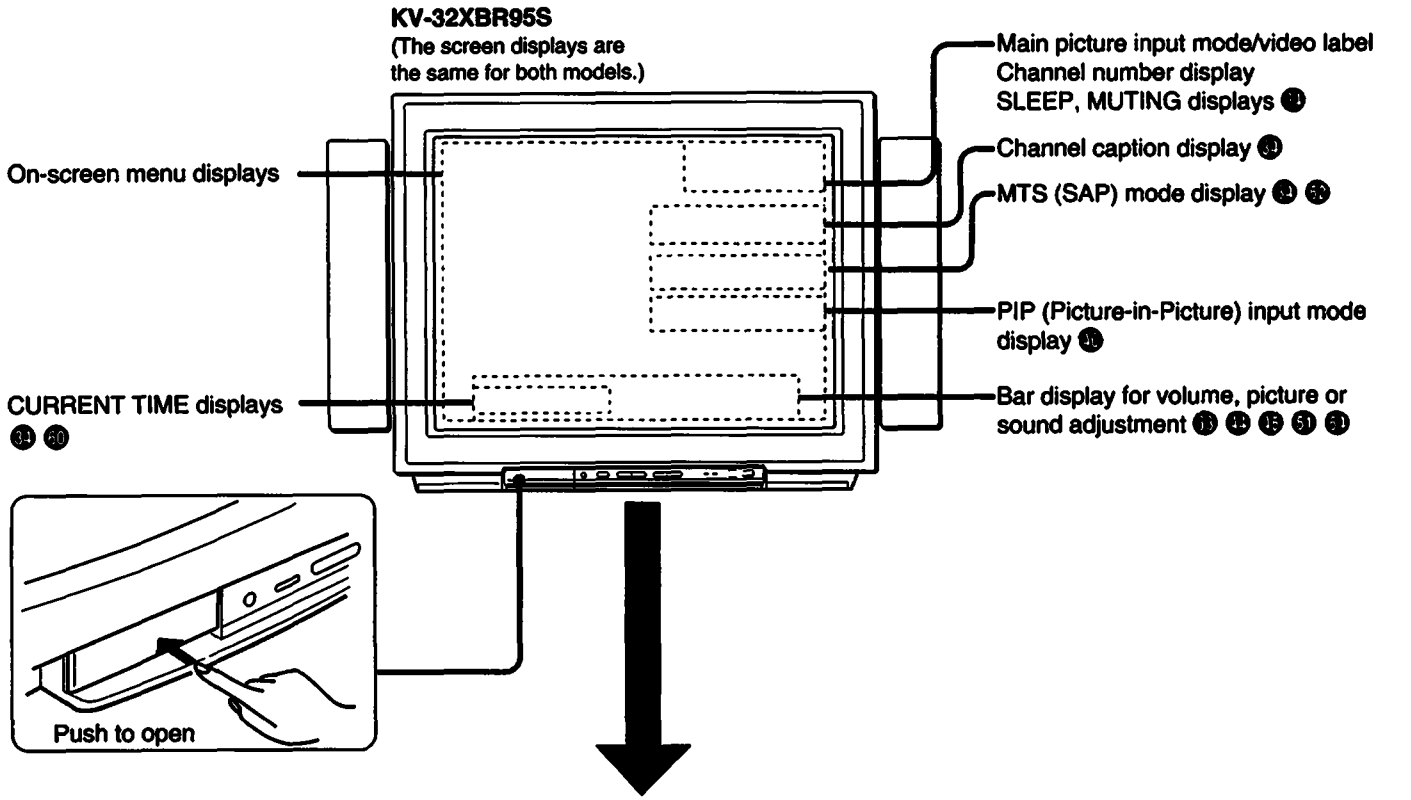
4 Plug the TV power cord into an AC 120 volt power outlet.

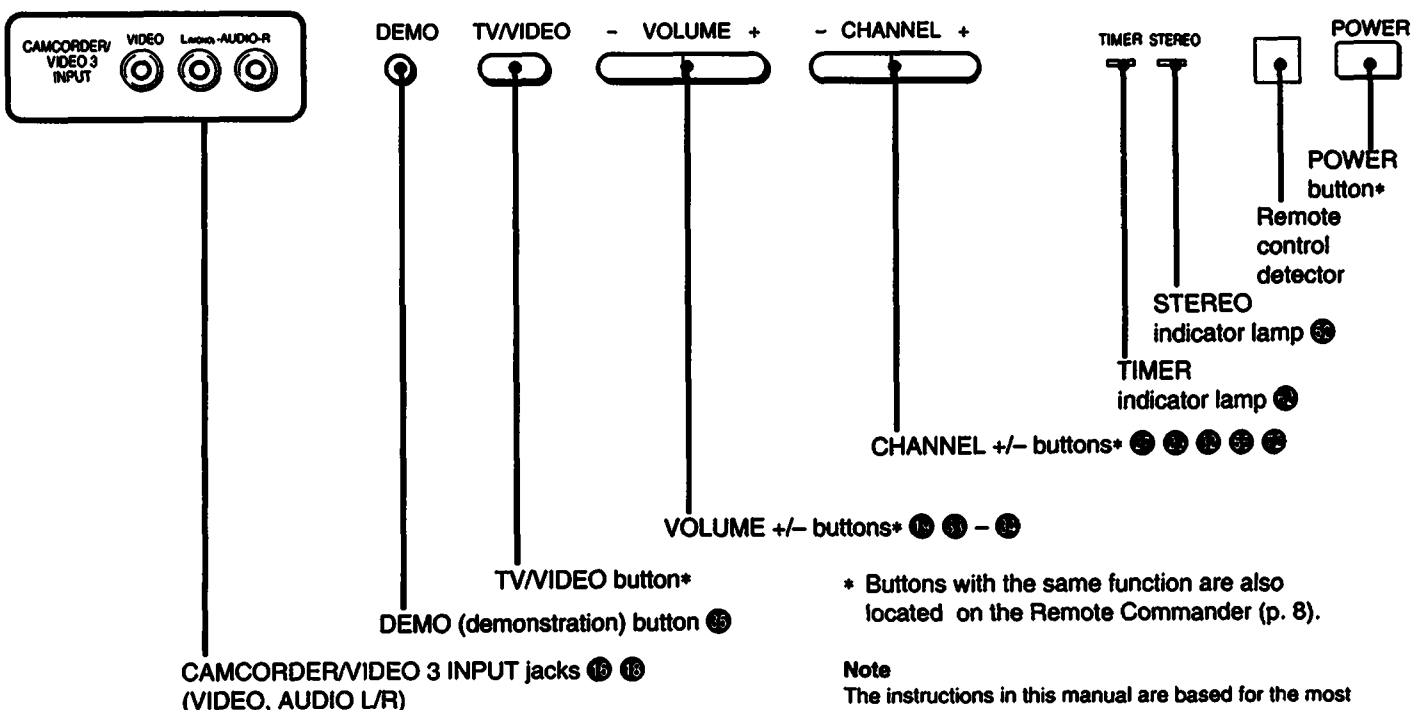
For further precautions, see p. 2.

Locating Controls and Connectors

For details, see the pages indicated by the numbered black circles ●

Front


KV-32XBR95S
(The screen displays are the same for both models.)
Main picture input mode/video label
Channel number display
SLEEP, MUTING displays
Channel caption display
MTS (SAP) mode display
On-screen menu displays
PIP (Picture-in-Picture) input mode display
CURRENT TIME displays
Bar display for volume, picture or sound adjustment
Push to open

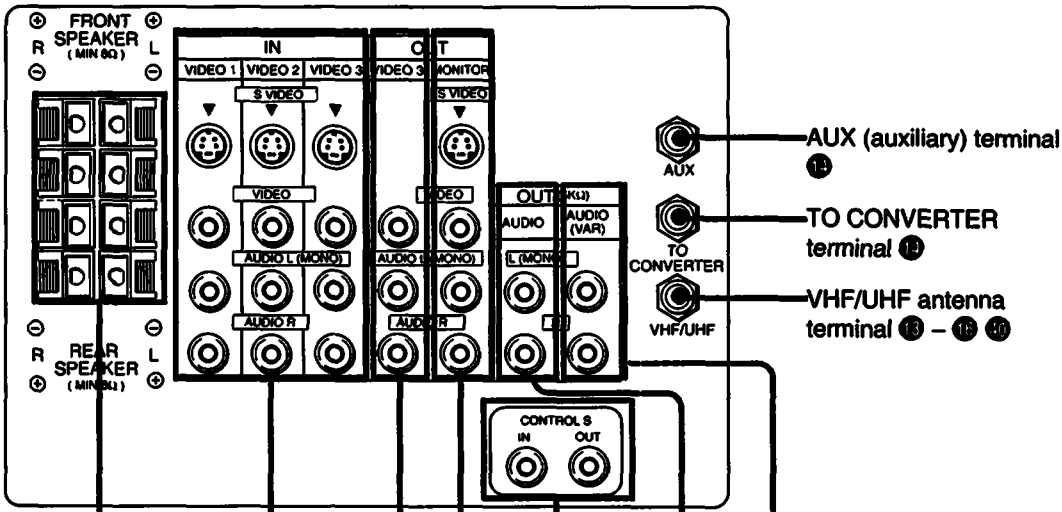


* Buttons with the same function are also located on the Remote Commander (p. 8).

Note

The instructions in this manual are based for the most part on operating the TV with the Remote Commander. You can also use the buttons on the TV that have the same function.

Rear



AUX (auxiliary) terminal ⓮

TO CONVERTER *terminal* ⓬

VHF/UHF antenna terminal ⓭ – ⓯ ⓴

AUDIO (VAR) OUT jacks ⓳

AUDIO OUT jacks ⓳

CONTROL S IN/OUT jacks ⓱

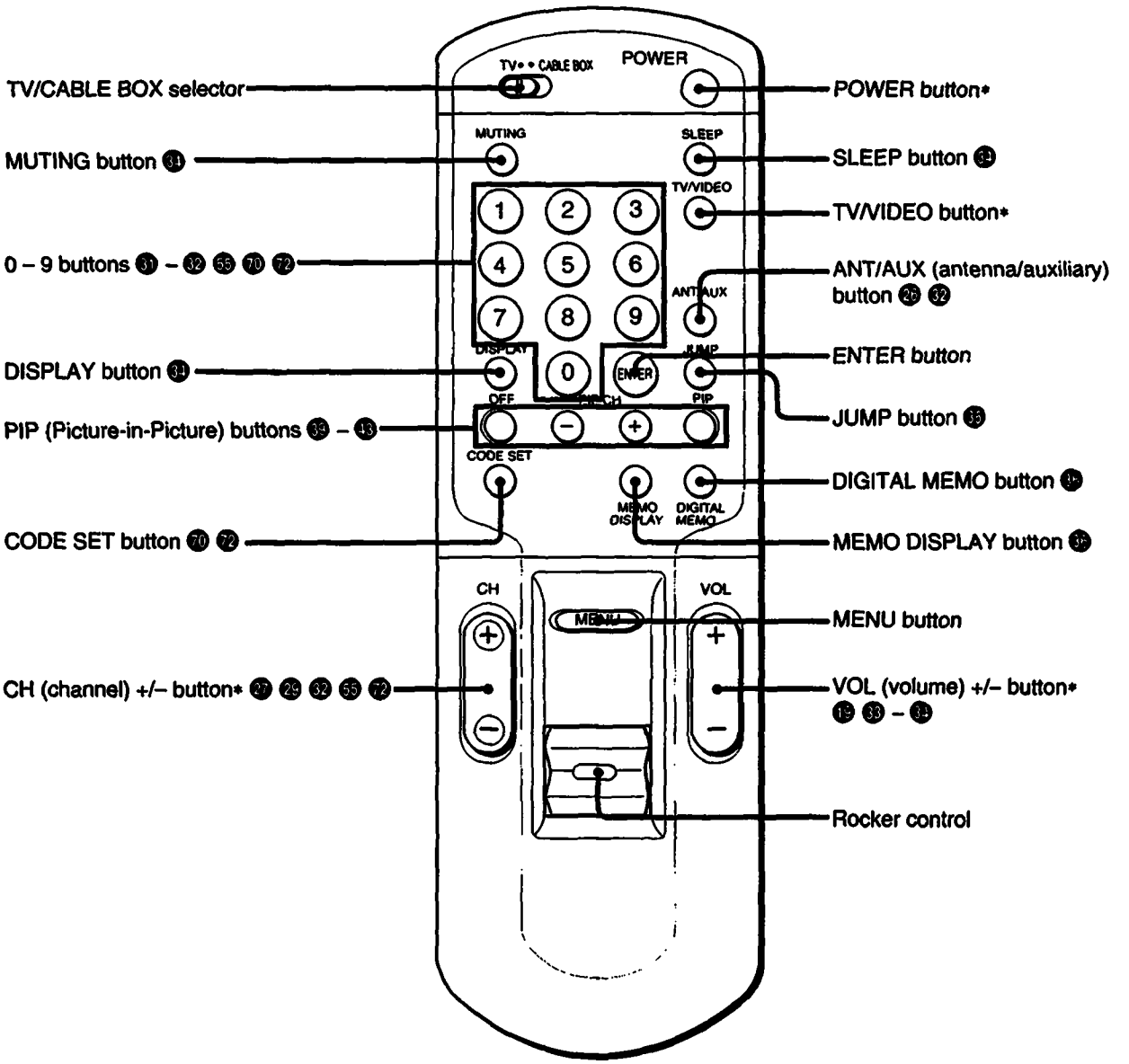
MONITOR OUT jacks ⓱ ⓲

VIDEO 3 OUT jacks ⓲

VIDEO 1/2/3 IN jacks ⓯ – ⓲ ⓴

Speaker out terminals ⓬
(FRONT SPEAKER/REAR SPEAKER)

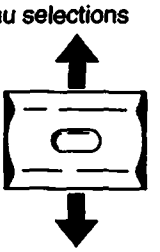
Remote Commander RM-Y114 (Outer panel controls)



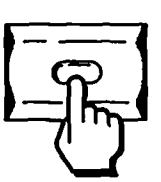
Using the rocker control

Use the rocker control to make on-screen menu selections (see p. 22).

Press the control up or down to make a selection.



Click the control to execute the selection.

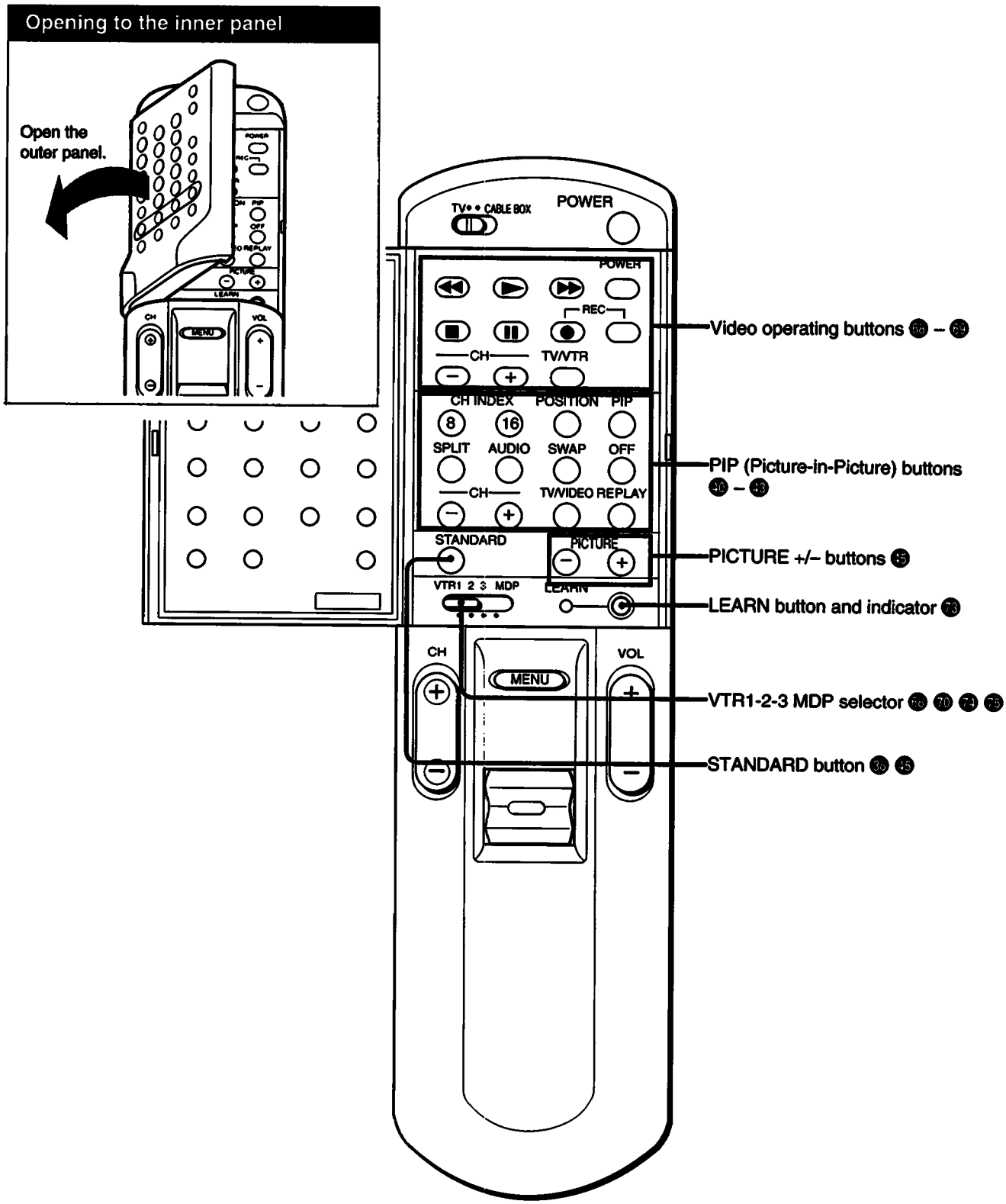


* Buttons with the same function are also located on the TV (p. 6).

Note

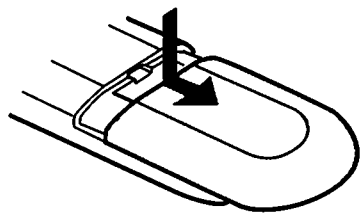
If the TV/CABLE BOX selector is set to CABLE BOX, the Remote Commander is able to control a connected cable box, not the TV (p. 72). Set the selector to TV to control the TV with the Remote Commander.

Remote Commander (Inner panel controls)

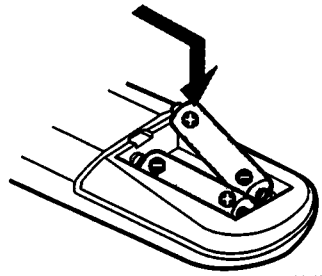


Installing batteries in the Remote Commander

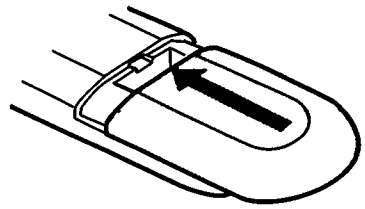
1 Push open the lid (rear of the Remote Commander).



2 Install two AA size (R6) batteries so that the ⊕ and ⊖ ends are inserted as shown.



3 Replace the lid.



About battery life

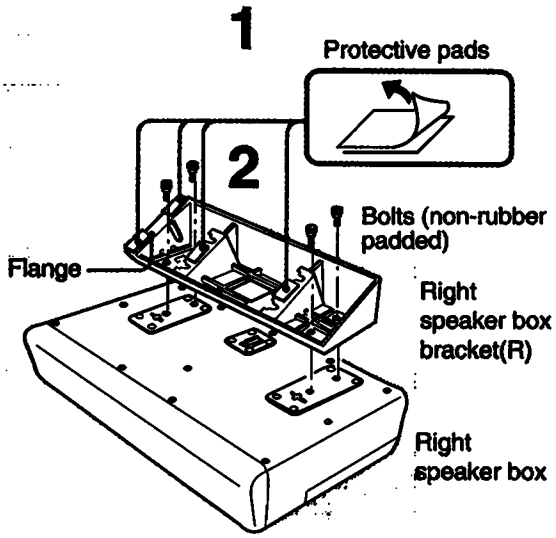
Under normal operation, batteries will last up to half a year. If the Remote Commander does not operate properly, the batteries might be worn out. Replace both of them with new ones.

To avoid damage from possible battery leakage

Remove the batteries if you do not plan to use the Remote Commander for a fairly long time.

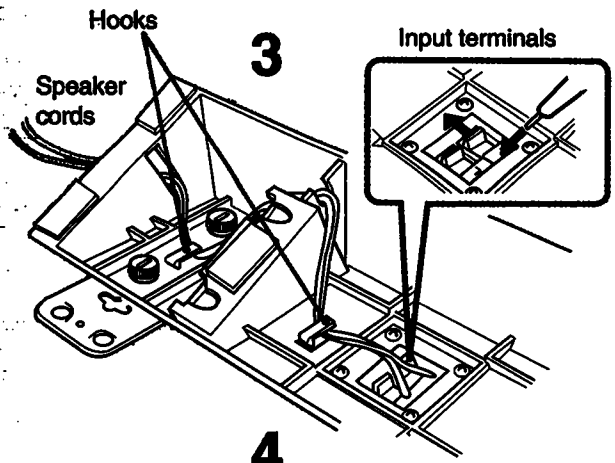
Installing the Detachable Speakers

Follow these instructions to assemble and install the detachable speakers (left and right sides) to the TV. Other installation examples appear on the next page. After installing the speakers, make sure SPEAKER is set to "ON" (p. 53).

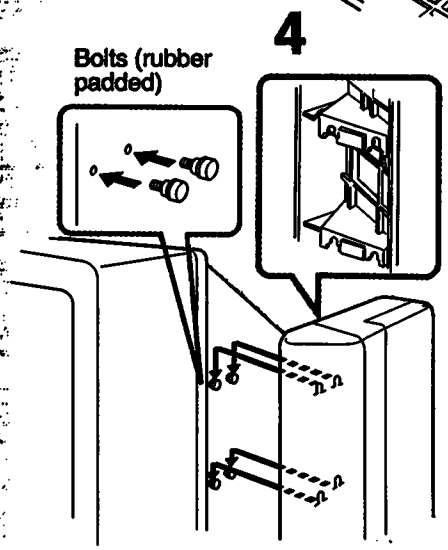


1 To install the right speaker box, remove the backing from four protective pads, and attach the pads to the right speaker box bracket (R) as shown.

2 Place the right speaker box bracket on the right speaker box as shown, with the bracket flange on the bottom, and the four holes aligned; then insert and tighten the four bolts (non-rubber padded).



3 Attach the speaker cords to the input terminals on the speaker box, matching the cord and terminal colors. Then insert the cords under the hooks.



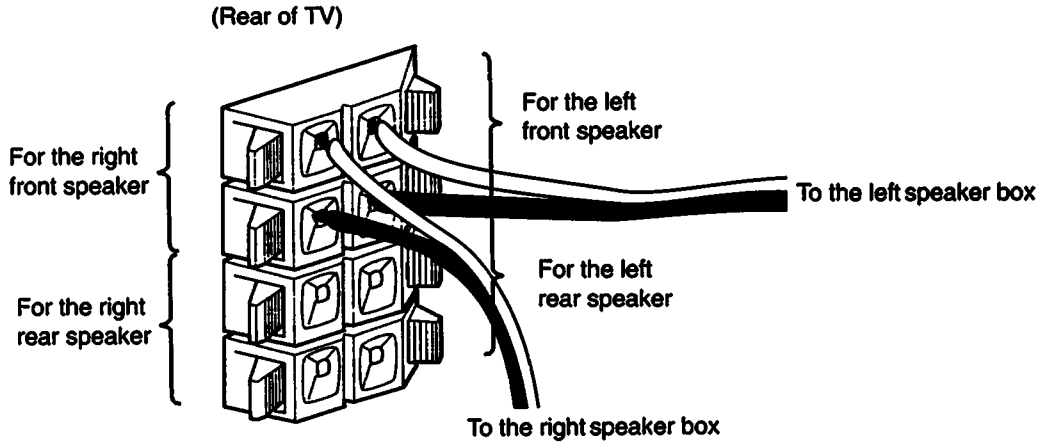
4 Attach the supplied bolts (rubber padded), then install the speaker box to the right side of the TV.

5 Repeat steps 1 – 4 to assemble and install the left speaker box; then follow the instructions on the next page to connect the speaker cords to the TV.

Note
The speaker grill covers are not removable.

Installing the Detachable Speakers

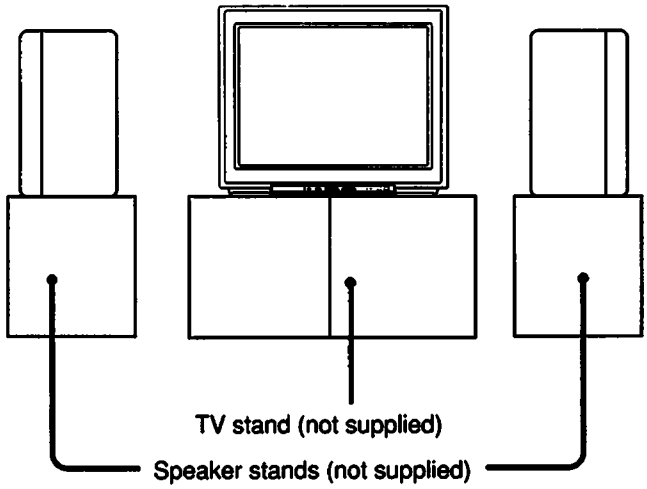
Connecting the speaker cords to the TV


(Rear of TV)
For the right front speaker
For the right rear speaker
For the left front speaker
To the left speaker box
For the left rear speaker
To the right speaker box

Caution
Always match the speaker cord and terminal colors when making the connection.

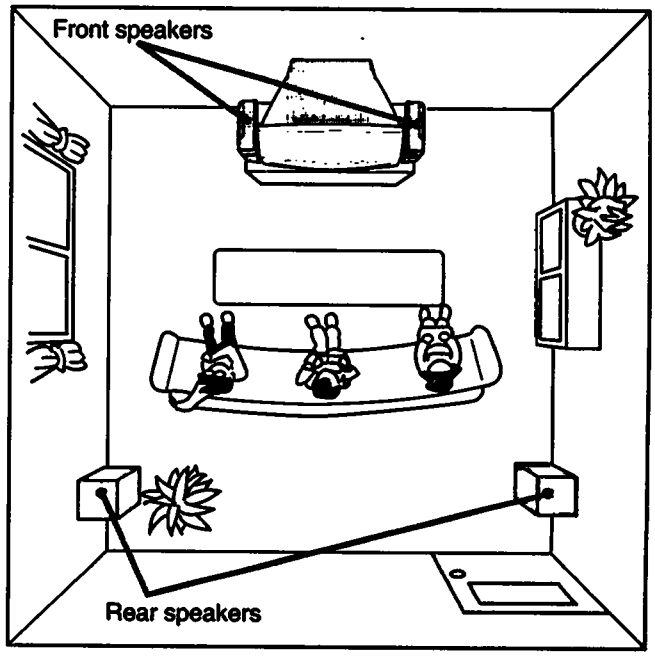
Using the speakers detached from the TV

You can place the speakers on speaker stands (not supplied) rather than attaching them to the TV. Be sure to position the speaker boxes as shown.



Connecting optional speakers

You can connect optional speakers mounted to a rear wall to create a surround effect. After connecting the rear speakers, set REAR SPEAKER to "YES" (p. 54).



Making Antenna Connections

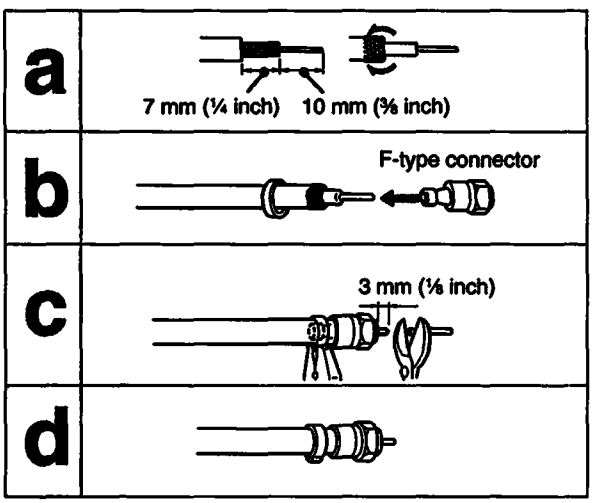
Although you can use either an indoor or outdoor antenna with the TV, an outdoor antenna will provide you with better picture quality.
You can receive cable TV by connecting a cable supplied by your local cable company.

Connecting a VHF, UHF or VHF/UHF combination antenna*, or CATV cable

Check your antenna cable type. If you have 75-ohm coaxial cable (round), attach an F-type connector (not supplied). If you have 300-ohm twin-lead cable (flat), attach a 300-75 ohm adaptor (not supplied).

Using 75-ohm coaxial cable (round)

1 Prepare the end of the cable by attaching the F-type connector as shown below.

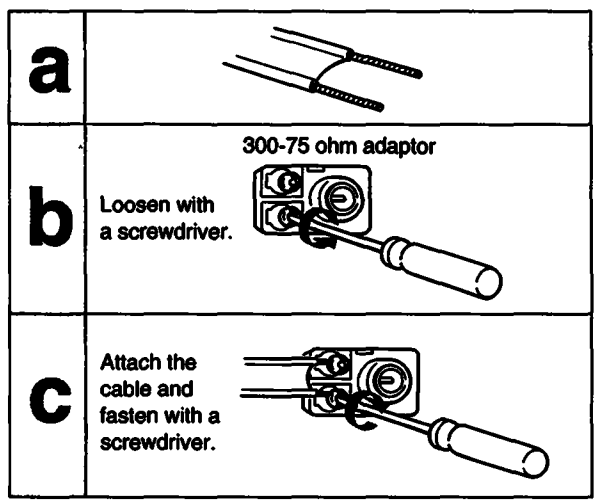


2 Plug the connector into the VHF/UHF terminal at the rear of the TV.

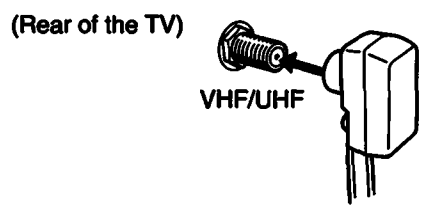
* Most combination antennas are equipped with a signal splitter. Remove the splitter and attach the appropriate connector.

Using 300-ohm twin-lead cable (flat)

1 Prepare the end of the cable by attaching the 300-75 ohm adaptor as shown below.

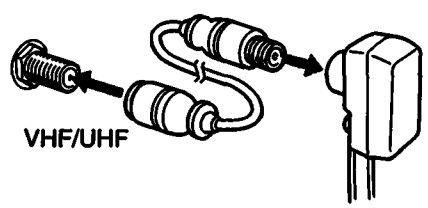


2 Plug the adaptor into the VHF/UHF terminal at the rear of the TV.

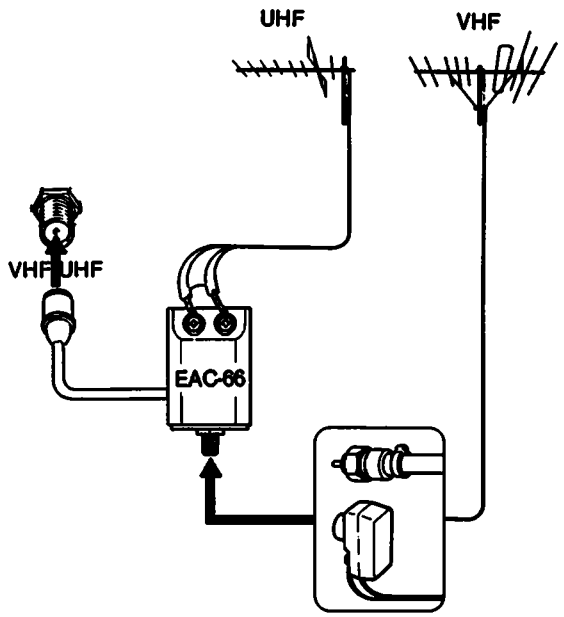


Connecting the supplied antenna cable
For better picture quality, connect the supplied antenna cable as shown below, so that the 300-ohm twin-lead cable can be separated a distance from the TV.

(Rear of the TV)



Connecting both VHF and UHF antennas



Use an EAC-66 U/V mixer (not supplied).

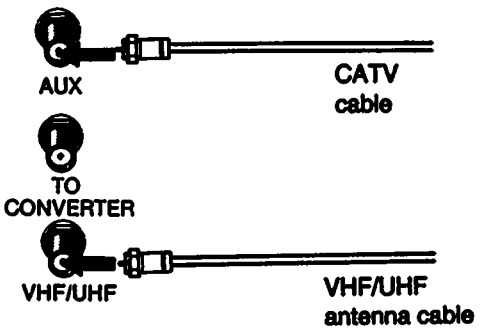
1 Prepare the VHF antenna cable using the appropriate connector (p. 13).

2 Connect the cable to the U/V mixer.

3 Connect the U/V mixer to the VHF/UHF terminal.

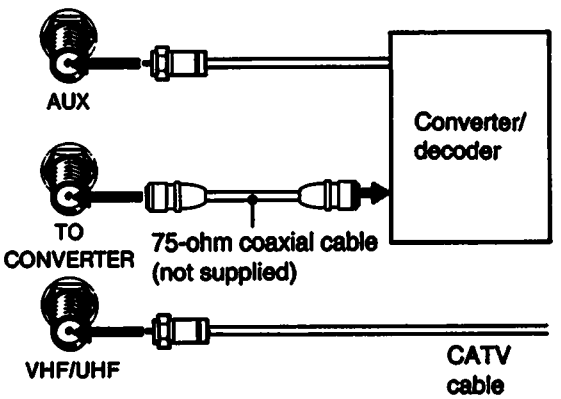
When you use the U/V mixer
Snow and noise may appear in the picture when viewing cable TV channels over 37 (W + 1).

Connecting both VHF/UHF antennas and a CATV cable



Note
Do not connect anything to the TO CONVERTER terminal in this case.

Connecting a cable with a pay cable TV system converter/decoder



Pay cable TV systems use scrambled or encoded signals and require special converters (decoders) in addition to the normal cable connection.

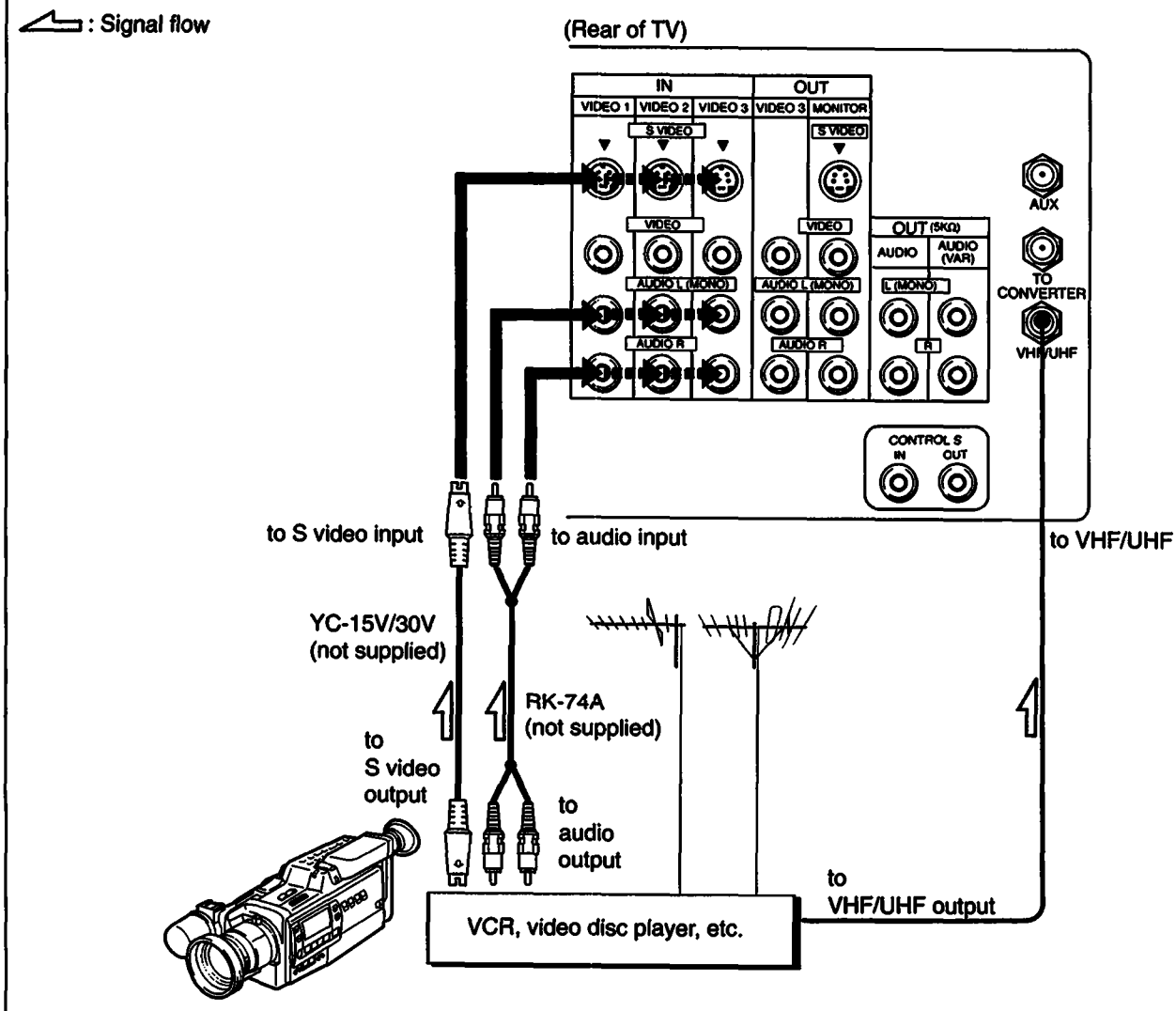
- **The special converter/decoder will be supplied by the cable company.**

Connecting Other Equipment

After making these connections, you will be able to do the following:

• View the playback of video tapes • Record TV programs • Record one TV program while viewing another program

Connecting a VCR, video disc player or Camcorder equipped with an S video output jack



Preparing for use

1 Turn on the TV.

2 Set S-VIDEO to "ON" (p. 48).

3 Press TV/VIDEO on the TV or on the Remote Commander so that "VIDEO 1," "VIDEO 2" or "VIDEO 3" appears on the screen.
VIDEO 1: for equipment connected to VIDEO 1 IN
VIDEO 2: for equipment connected to VIDEO 2 IN
VIDEO 3: for equipment connected to VIDEO 3 IN

To return to TV mode

Press TV/VIDEO or CHANNEL +/– on the TV, or press TV/VIDEO, CH +/– or 0 – 9 and ENTER on the Remote Commander so that a channel number appears on the screen.

Note

You can watch both a TV and a VCR image at once, using Picture-in-Picture (pp. 39 – 43).

Operating the equipment

To operate the video equipment, refer to the instruction manual that comes with the equipment.

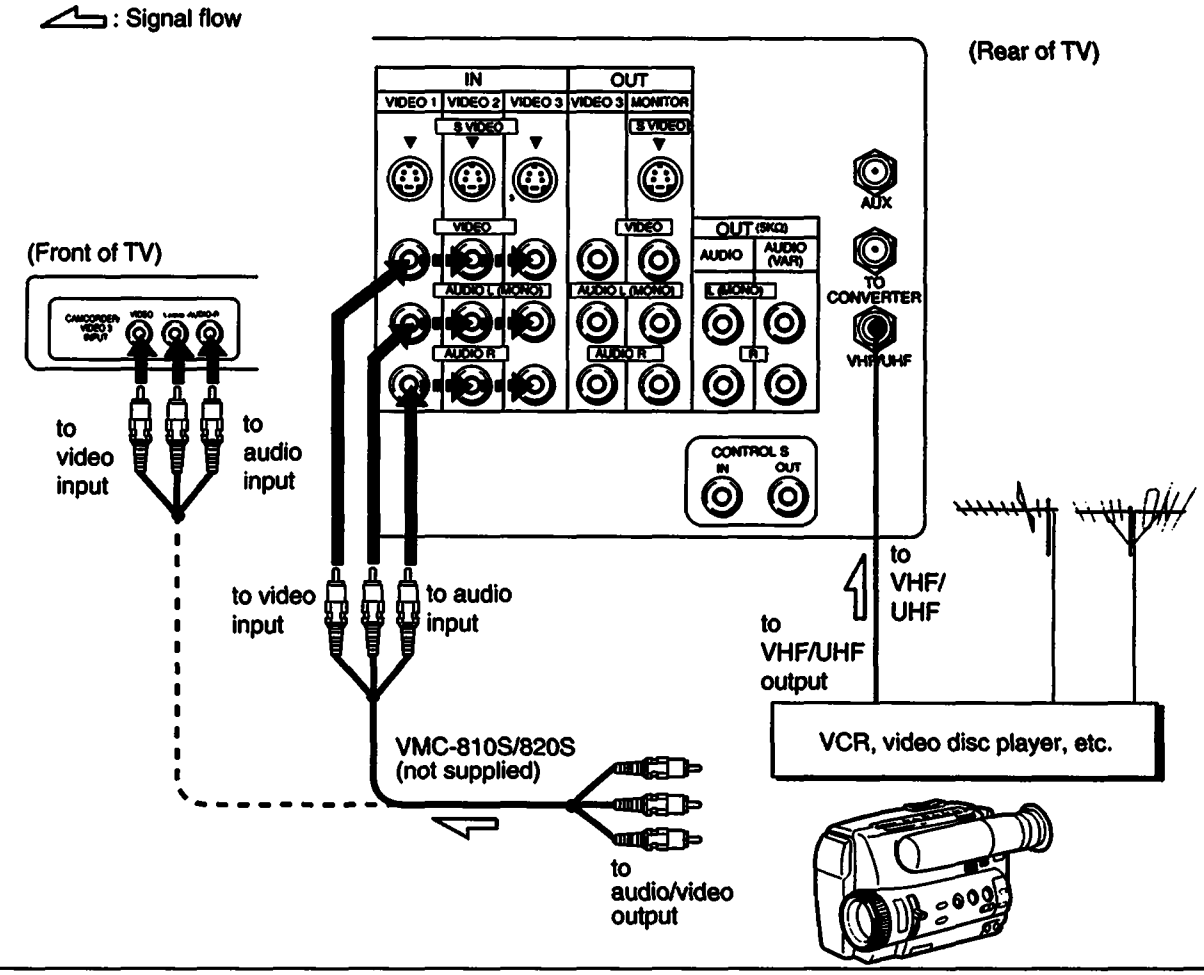
You can operate a Sony VCR or video disc player, or a non-Sony VCR with the supplied Remote Commander. For details, see "Using the Programmable Remote Commander" (pp. 68 – 75).

About S video input

Video input and output signals can be separated into Y (luminance or brightness) and C (chroma or color) signals. Usually these two signals are combined in a VCR and sent as one signal to a TV. Separation of the Y and C signals prevents them from interfering with one another, thereby improving picture (especially color) quality.

This TV is equipped with S video input jacks through which these separated signals can be input directly.

Connecting a VCR, video disc player or Camcorder not equipped with an S video output jack



Preparing for use

1 Turn on the TV.

2 Press TV/VIDEO on the TV or on the Remote Commander so that "VIDEO 1," "VIDEO 2" or "VIDEO 3" appears on the screen.
VIDEO 1: for equipment connected to VIDEO 1 IN
VIDEO 2: for equipment connected to VIDEO 2 IN
VIDEO 3: for equipment connected to VIDEO 3 IN

About the CONTROL S jacks

Make the following connections to control the TV and connected equipment with one Remote Commander.

- Connect the equipment to CONTROL S to control the TV with the other equipment's remote commander.
- Connect the equipment to CONTROL S to control the other equipment with the TV's Remote Commander.

Operating the equipment

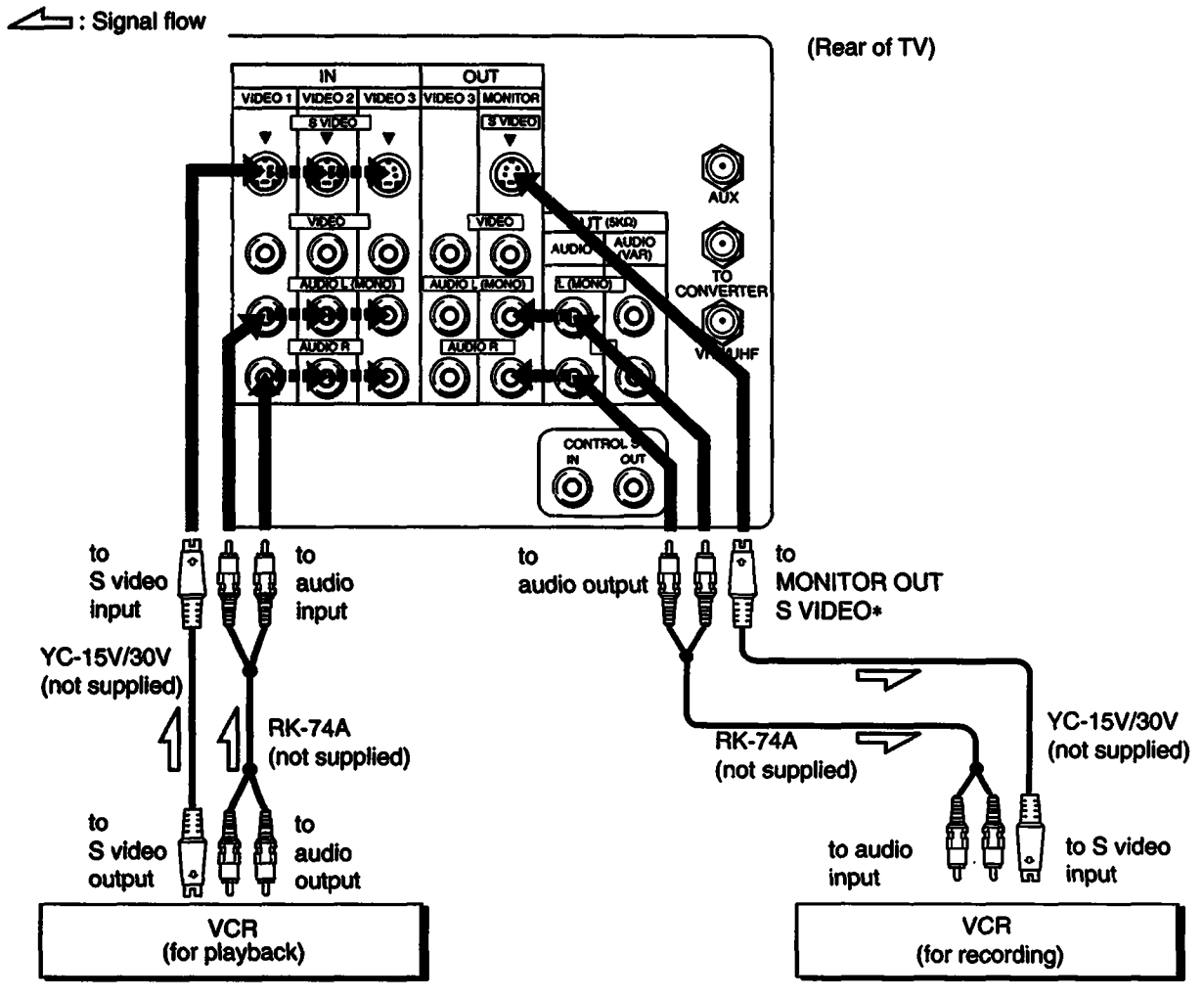
Same as p. 15.

To return to TV mode
Press TV/VIDEO or CHANNEL +/– on the TV, or press TV/VIDEO, CH +/– or 0 – 9 and ENTER on the Remote Commander so that a channel number appears on the screen.

Notes

- If you try to use equipment that is connected to the front CAMCORDER/VIDEO 3 INPUT and rear VIDEO 3 IN jacks at the same time, the picture will be distorted. Be sure you turn off one piece of equipment first.
- You can label each of the video input modes (p. 57).
- You do not need to select a video mode when you use the direct play function (pp. 74 – 75).
- If you connect a monaural VCR, connect the audio output of the VCR to the L (MONO) jack of VIDEO IN (1, 2 or 3). The monaural sound will be heard from both speakers.
- If equipment is connected to the rear VIDEO 3 IN S video jack, and you want to watch the signal input from the front CAMCORDER/VIDEO 3 INPUT jacks, set S-VIDEO to "OFF."

Connecting two VCRs (equipped with an S video output jack) for tape editing



Preparing for use/Operating the equipment

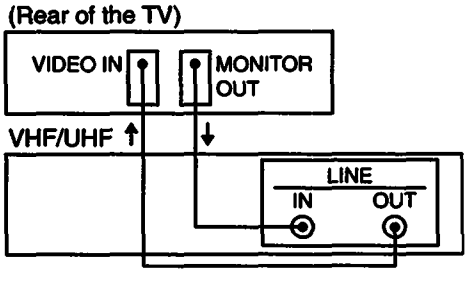
Same as p. 15.

* It is not necessary to connect to the MONITOR OUT S VIDEO jack to receive the S video input signal. You can make the connection as shown above, or connect the MONITOR OUT jacks to the VCR for recording, using the VMC-810S/820S connector (not supplied).

Caution
Video tapes and other materials may be copyrighted. Unauthorized recording of such material may be contrary to the provisions of the copyright laws.

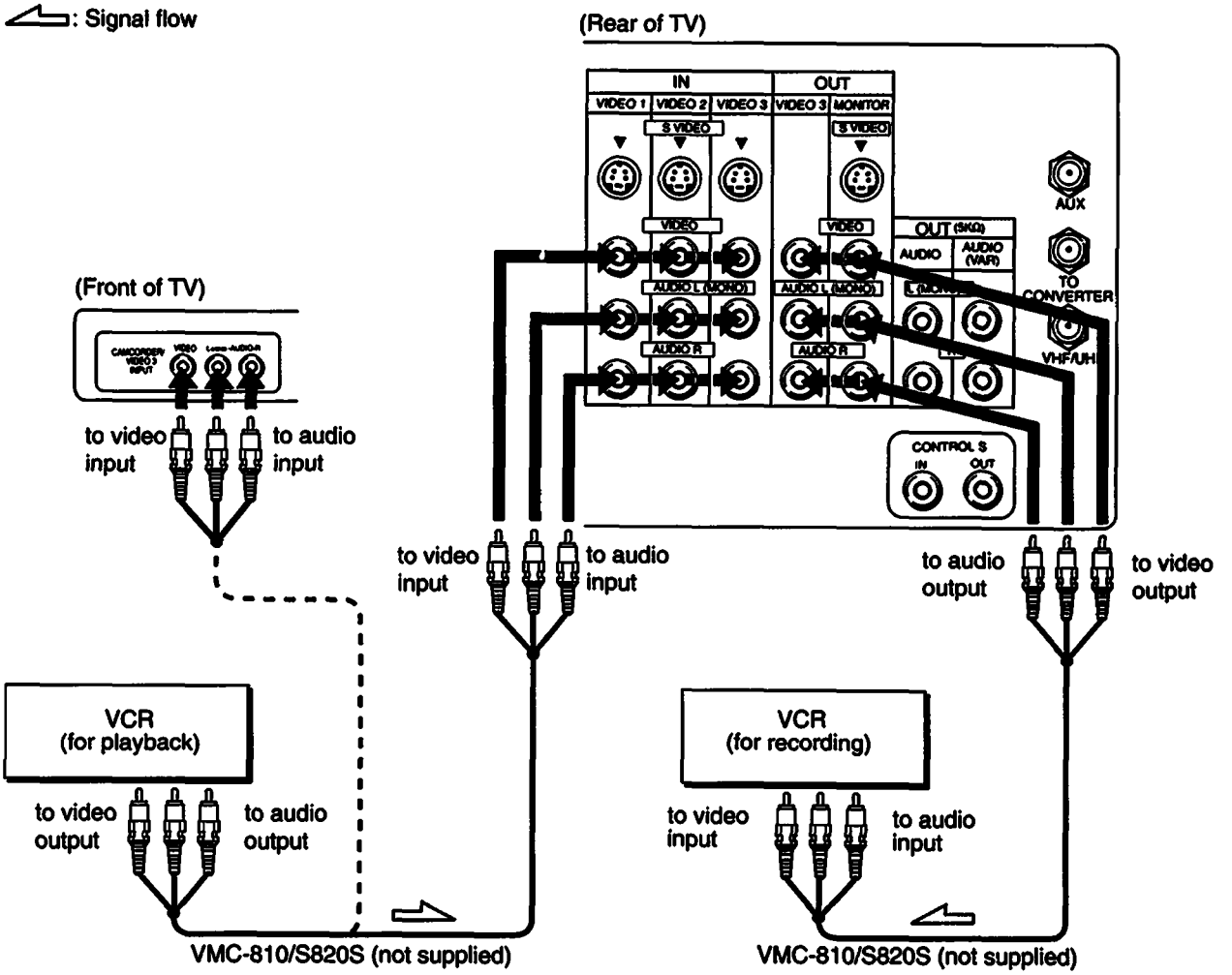
Notes

- **Do not** change the input signal while editing through MONITOR OUT, or the output signal will also change.
- When connecting a single VCR to the TV, **do not** connect the MONITOR OUT jacks at the rear of the TV to the VCR's line input, while at the same time connecting from the TV's VIDEO IN jacks to the VCR's line output, as shown below.



The above type of connection is not a problem when you connect from the line input of one VCR, and from the line output of a second VCR.

Connecting two VCRs (not equipped with an S video output jack) for tape editing



Preparing for use

1 Turn on the TV.

2 Press TV/VIDEO on the TV or on the Remote Commander so that "VIDEO 1," "VIDEO 2" or "VIDEO 3" appears on the screen.
VIDEO 1: for equipment connected to VIDEO 1 IN
VIDEO 2: for equipment connected to VIDEO 2 IN
VIDEO 3: for equipment connected to VIDEO 3 IN

Notes

- If you try to use equipment that is connected to the front CAMCORDER/VIDEO 3 INPUT and rear VIDEO 3 IN jacks at the same time, the picture will be distorted. Be sure you turn off one piece of equipment first.
- If you have connected to a Camcorder's input jacks, do not connect to the TV's input jacks.
- If you connect equipment to the rear VIDEO 3 IN S VIDEO jack, you cannot receive the output signal from the VIDEO 3 OUT VIDEO jack.

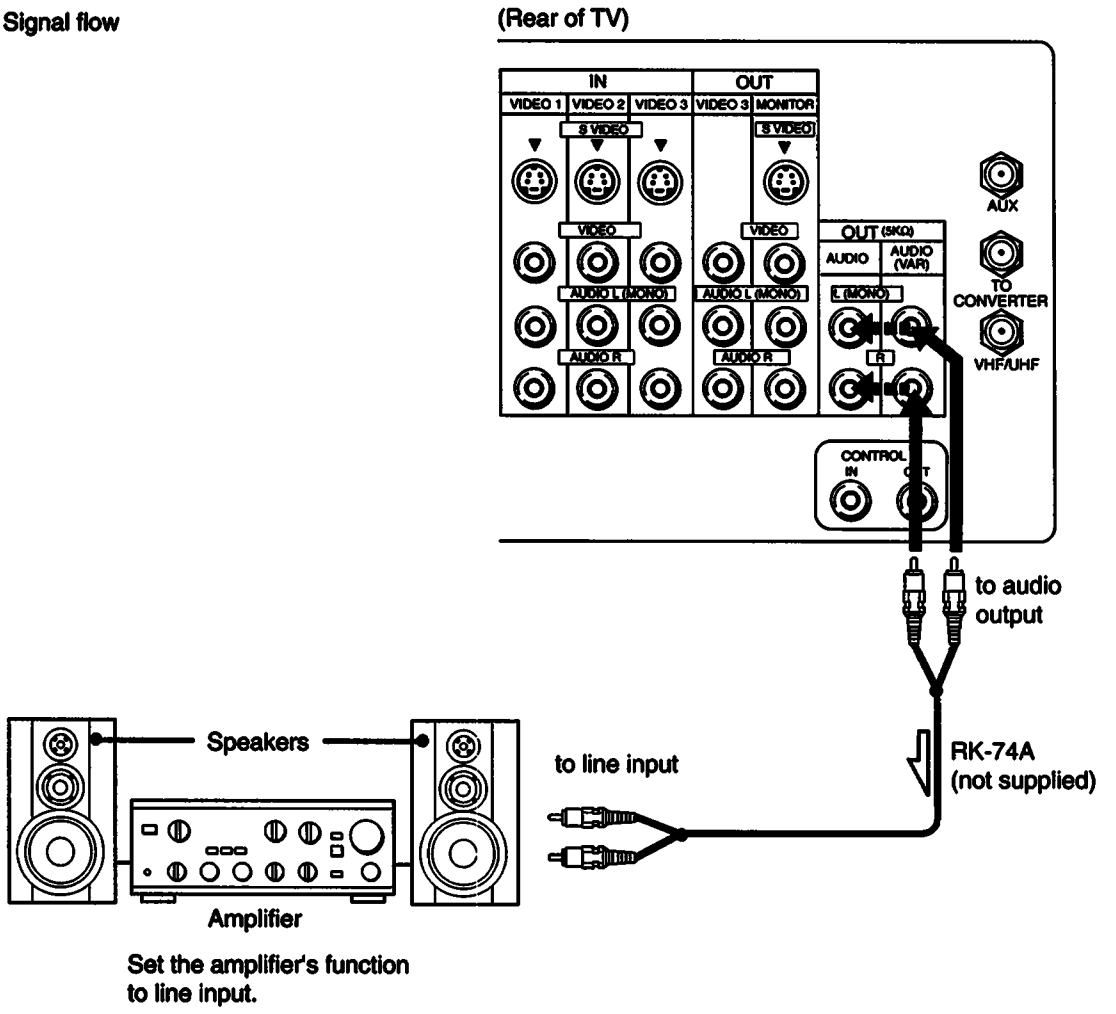
Watching a different image while duplicating

The VIDEO 3 OUT jacks only output the signal from VIDEO 3 IN.
If you connect a VCR for playback to the VIDEO 3 IN jacks, and a VCR for recording to the VIDEO 3 OUT jacks to duplicate your recorded tapes, you can watch input images different from the image being output for recording.

To watch a different input image
Press TV/VIDEO on the TV or on the Remote Commander to select the input image you want to watch.

Connecting an audio system

: Signal flow



Preparing for use

Display the mode set menu and set SPEAKER to "OFF" to cut off the TV speaker sound (p. 53), and listen to the TV's sound solely through the audio system speakers.

Adjusting the sound level

If you connect your stereo system to AUDIO (VAR) OUT, leave the amplifier volume, bass and treble controls at their mid-position, and adjust the level with the VOLUME +/– buttons on the TV or the VOL +/– buttons on the Remote Commander.

If you connect your stereo system to AUDIO OUT, adjust the speaker volume with the stereo amplifier controls.

Note

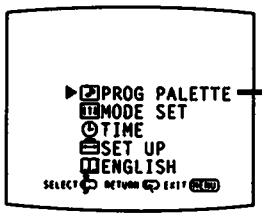
By connecting to AUDIO (VAR) OUT, you can adjust the bass, treble and balance, or select a sound mode or an MTS (Multichannel TV Sound) mode, using the on-screen menus (pp. 49 – 52).

Using the On-Screen Menus

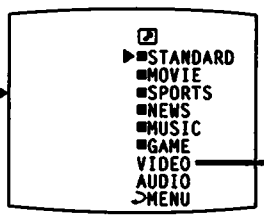
The following flow chart shows the different levels of on-screen menus that you can use to make various adjustments and settings. See the indicated pages for instructions on using each feature.

For picture and sound quality adjustment

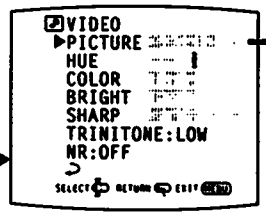
Main menu



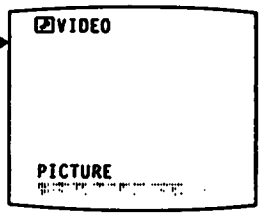
Program palette menu



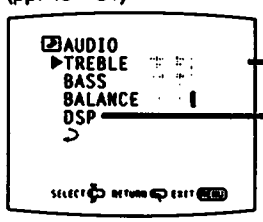
VIDEO screen
(pp. 44 – 47)



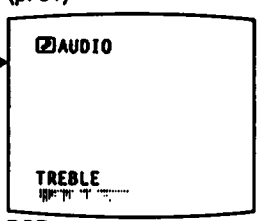
Adjustment screen
(p. 44)



AUDIO screen
(pp. 49 – 51)

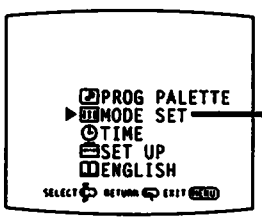


Adjustment screen
(p. 51)

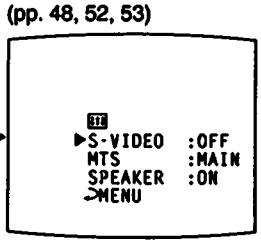


For mode adjustment

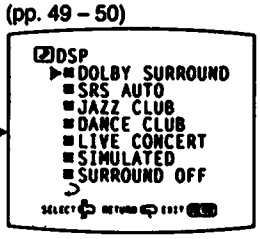
Main menu



MODE SET screen
(pp. 48, 52, 53)

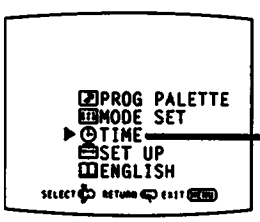


DSP menu
(pp. 49 – 50)

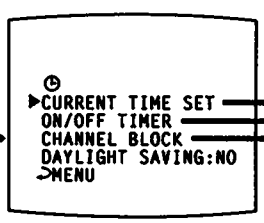


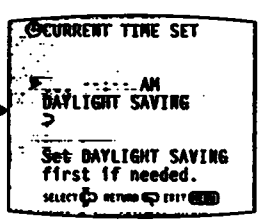
For time-related settings

Main menu

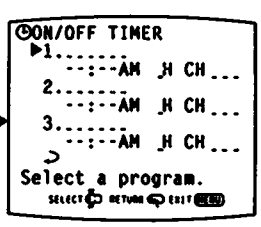


Time menu

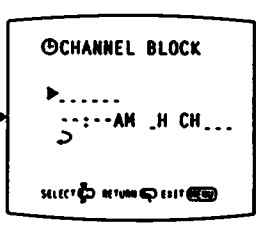




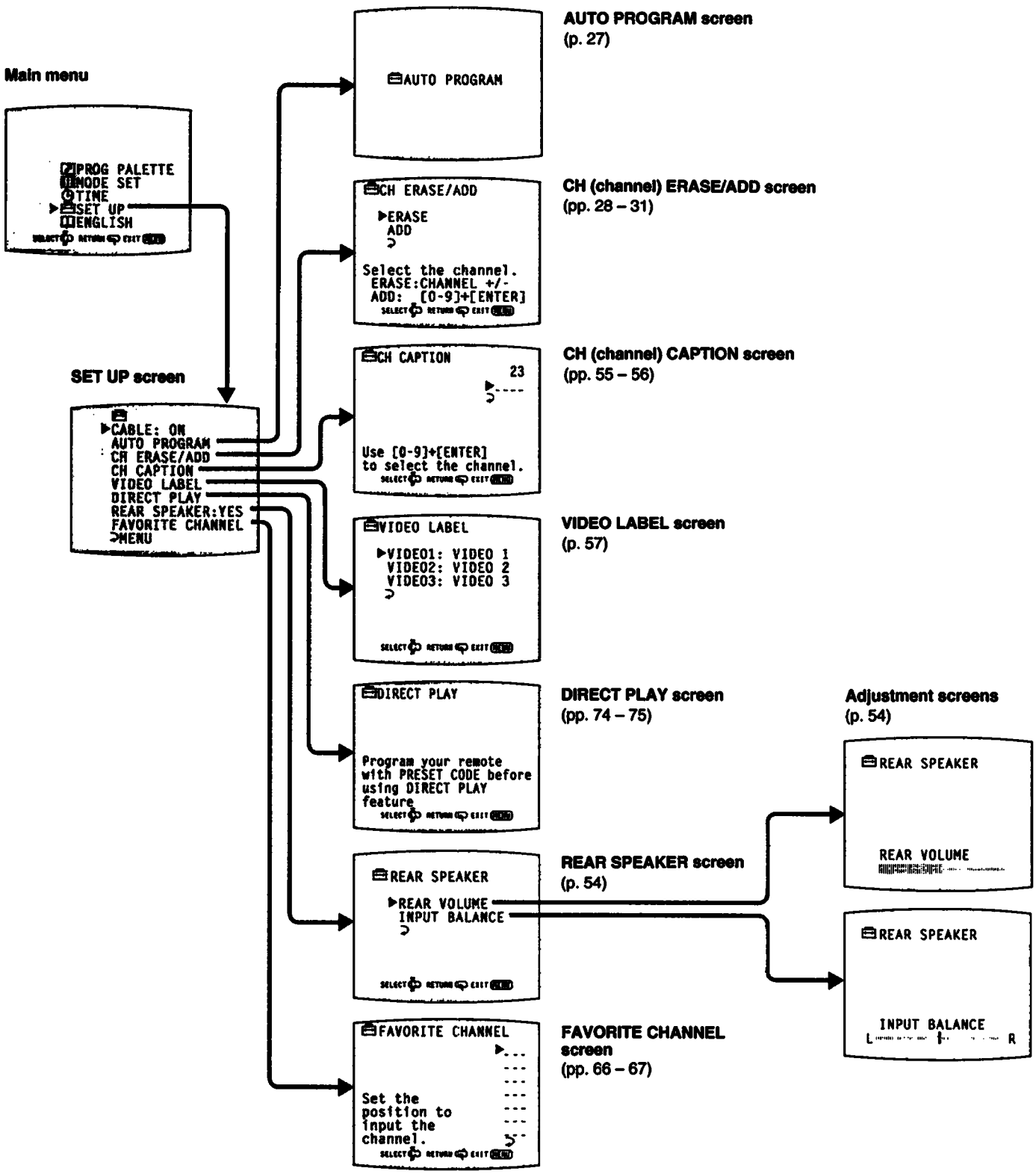
CURRENT TIME SET screen
(pp. 59 – 60)

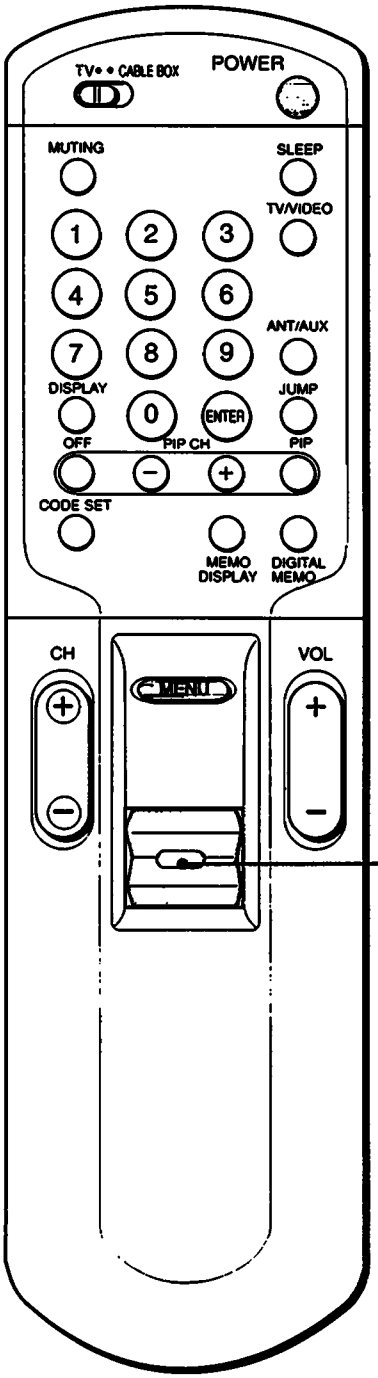


ON/OFF TIMER screen
(pp. 61 – 62)



CHANNEL BLOCK screen
(pp. 64 – 65)


Main menu
PROG PALETTE
MODE SET
TIME
SET UP
ENGLISH
SET UP screen
CABLE: ON
AUTO PROGRAM
CH ERASE/ADD
CH CAPTION
VIDEO LABEL
DIRECT PLAY
REAR SPEAKER:YES
FAVORITE CHANNEL
MENU
AUTO PROGRAM
AUTO PROGRAM screen
(p. 27)
CH ERASE/ADD
ERASE
ADD
Select the channel.
ERASE:CHANNEL +/-
ADD: [0-9]+[ENTER]
CH (channel) ERASE/ADD screen
(pp. 28 – 31)
CH CAPTION
23
Use [0-9]+[ENTER]
to select the channel.
CH (channel) CAPTION screen
(pp. 55 – 56)
VIDEO LABEL
VIDEO1: VIDEO 1
VIDEO2: VIDEO 2
VIDEO3: VIDEO 3
VIDEO LABEL screen
(p. 57)
DIRECT PLAY
Program your remote
with PRESET CODE before
using DIRECT PLAY
feature
DIRECT PLAY screen
(pp. 74 – 75)
REAR SPEAKER
REAR VOLUME
INPUT BALANCE
REAR SPEAKER screen
(p. 54)
FAVORITE CHANNEL
Set the
position to
input the
channel.
FAVORITE CHANNEL
screen
(pp. 66 – 67)
Adjustment screens
(p. 54)
REAR SPEAKER
REAR VOLUME
REAR SPEAKER
INPUT BALANCE
L
R



Navigating through the menus

To display the main menu
Press MENU.

To return to the previous menu
Press the rocker control up or down until the cursor points to " ⊃ MENU."
Then click the rocker control.

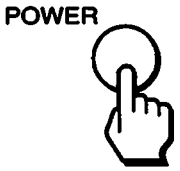
To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen
Press MENU on the Remote Commander.

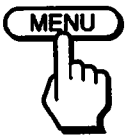
Changing the menu language

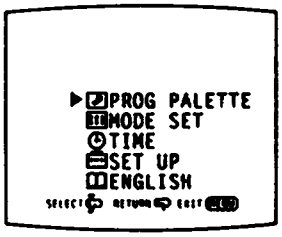
The menu language is factory-set to ENGLISH. Follow these instructions to change the menu language to Spanish or French, or back to English.

1 Press POWER to turn on the TV.

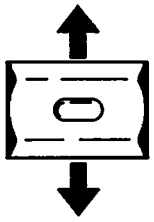


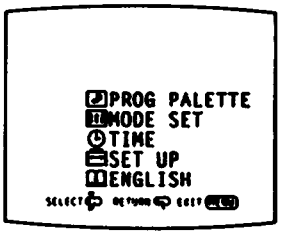
2 Press MENU.
The main menu appears.



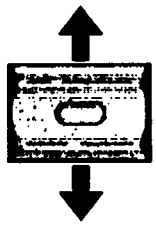


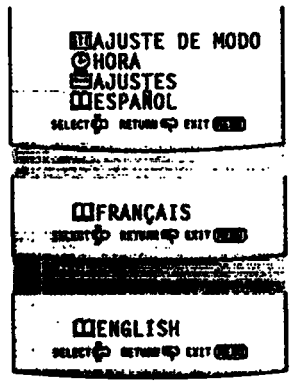
3 Press the rocker control up or down until the cursor points to "ENGLISH."
Then click the rocker control.
The language display turns red.





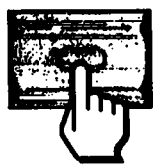
4 Press the rocker control up or down to select the language.
Each time you press the rocker control up or down, the "ESPAÑOL," "FRANÇAIS" and "ENGLISH" menus appear.

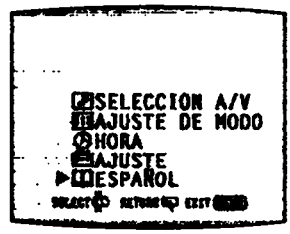




Note
Certain parts of the "ESPAÑOL" and "FRANÇAIS" menus remain in English.

5 Click the rocker control.
The language is selected.





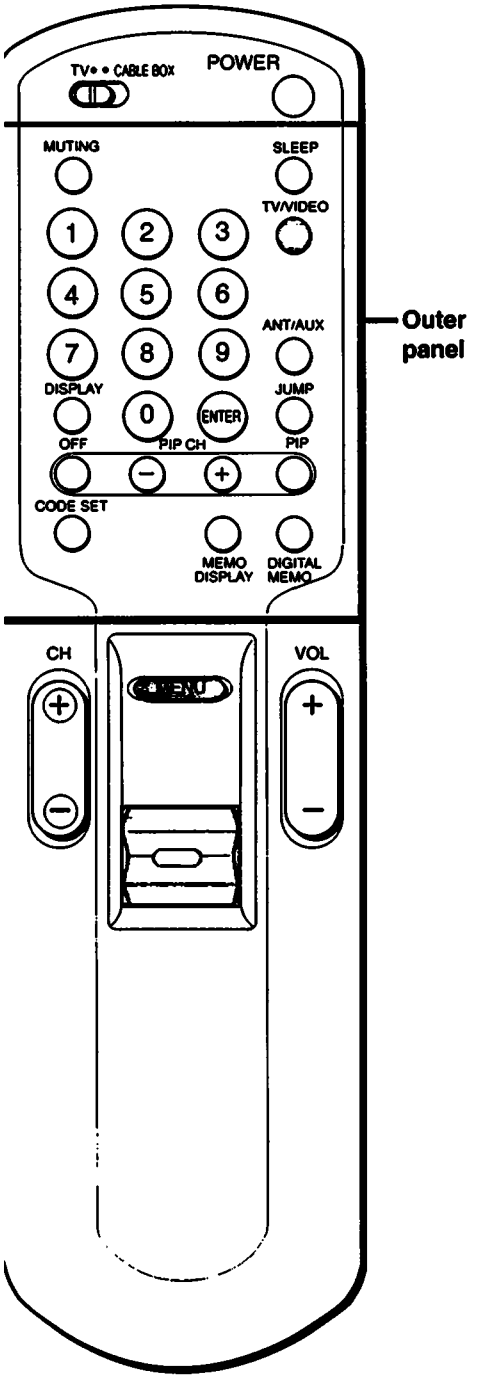
Spanish menu

To return to the normal screen.
Press MENU on the Remote Commander.

Notes concerning menus

- During PIP (Picture-in-Picture) mode, the on-screen menus may overlap the window picture.
- The menus disappear automatically, if you do not press a button within 90 seconds.

Setting CABLE ON or OFF

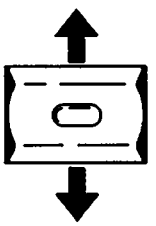


If you have cable connected to the TV, follow the steps below to set the cable connection on or off. Set CABLE OFF to preset or watch VHF or UHF channels, and set CABLE ON to preset or watch cable TV channels.

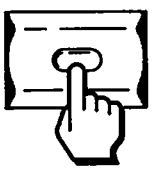
Note
If the TV is in video mode, the "CABLE" display is shaded and cannot be selected. Press TV/VIDEO to change to TV mode.

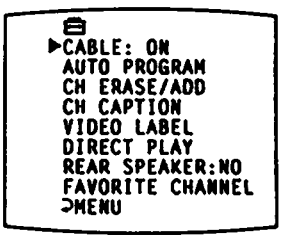
1 Press MENU.
The main menu appears.

2 Press the rocker control up or down until the cursor points to "SET UP."

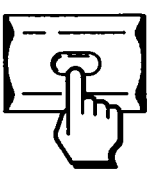


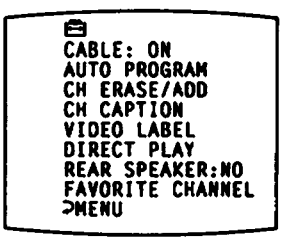
3 Click the rocker control.
The set up menu appears, and the cursor points to "CABLE."



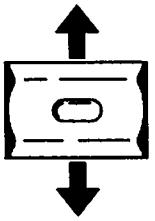


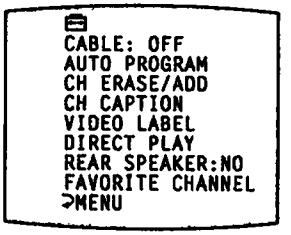
4 Click the rocker control again.
The mode display turns red.



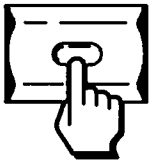


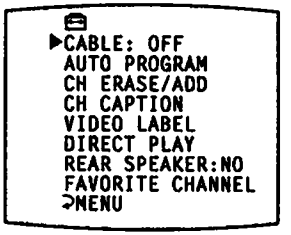
5 Press the rocker control up or down to select "ON" or "OFF."





6 Click the rocker control.
The setting is complete.





To return to the previous menu
Press the rocker control up or down until the cursor points to " ↵ MENU."
Then click the rocker control.

To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen.
Press MENU on the Remote Commander.

Cable TV channel chart*
Cable TV systems use letters or numbers to designate channels. To tune in a channel, refer to the chart below.

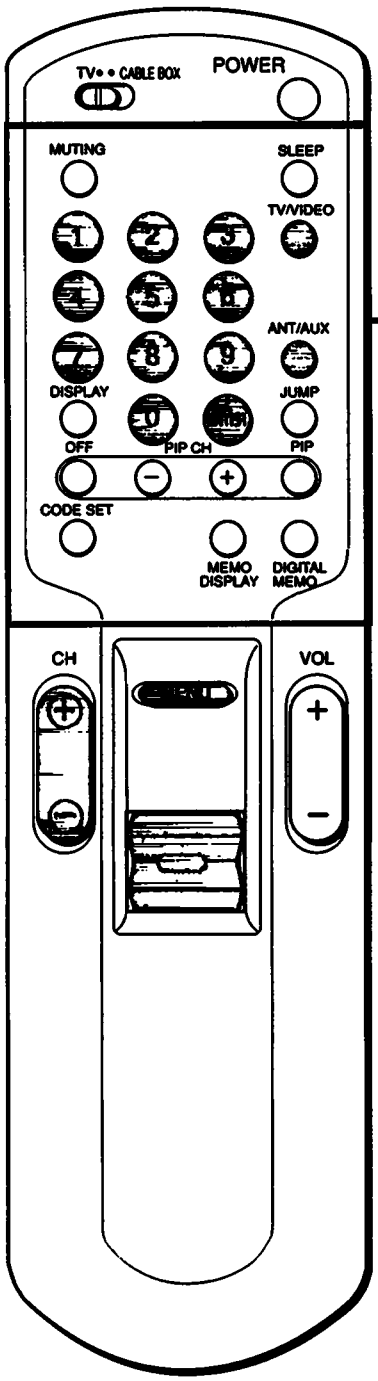
Number on this TV	Corresponding CATV channel
1	A-8
5	A-7
6	A-6
14	A
15	B
16	C
17	D
18	E
19	F
20	G
21	H
22	I
23	J
24	K
25	L
26	M
27	N
28	O
29	P
30	Q
31	R
32	S
33	T
34	U
35	V
36	W
37	W+1
38	W+2
39	W+3
•	•
•	•
•	•
•	•
•	•
93	W+57
94	W+58
95	A–5
96	A–4
97	A–3
98	A–2
99	A–1
100	W+59
101	W+60
102	W+61
•	•
•	•
•	•
•	•
•	•
123	W+82
124	W+83
125	W+84

Check with your local cable TV company for more complete information on the available channels.

* The designation of the cable TV channels conforms to the EIA/NCTA recommendation.

Presetting TV Channels

By presetting TV channels to the TV, you can select channels by pressing CH (CHANNEL) +/–.
(You can select VHF channels 2 – 13 without presetting.)



Outer panel

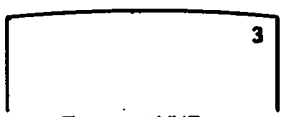
Presetting all receivable channels automatically

Follow these instructions to preset all the receivable VHF, UHF or cable TV channels to the TV.

Notes

- If the TV is in video mode, the "AUTO PROGRAM" display is shaded and cannot be selected. Press TV/VIDEO to change to TV mode.
- Perform auto programming during the day rather than late at night, when some channels may not be broadcasting.

1 Set the cable connection on or off (pp. 24 – 25) to select the type of channel you want to preset, VHF/UHF or cable TV.



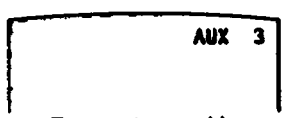
To preset VHF or UHF channels

To preset cable TV channels

Press ANT/AUX to select the type of channel you want to preset, VHF/UHF/ regular cable TV, or pay cable TV connected to the AUX (auxiliary) terminal.

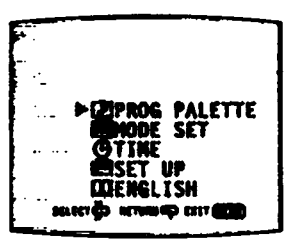
ANT/AUX

To preset VHF, UHF or regular cable TV channels

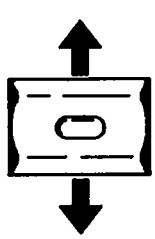


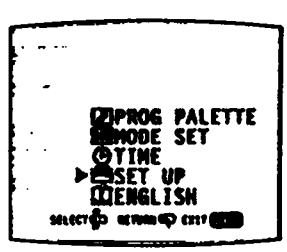
To preset pay cable TV channels

2 Press MENU.
The main menu appears.

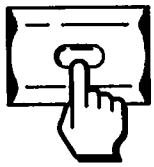


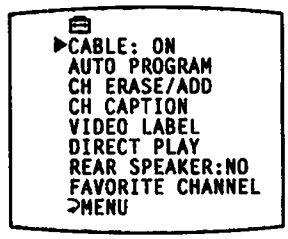
3 Press the rocker control up or down until the cursor points to "SET UP."



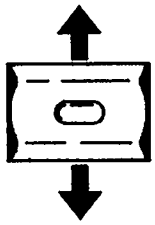


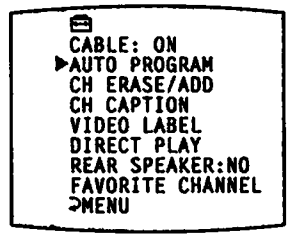
4 Click the rocker control.
The set up menu appears.



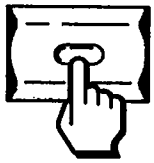


5 Press the rocker control up or down until the cursor points to "AUTO PROGRAM."



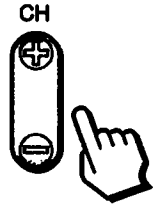


6 Click the rocker control.



"AUTO PROGRAM" appears on the screen and receivable channels (other than the channels already preset) are preset in numerical sequence. The channels previously preset will not remain in the TV's memory.
When no more channels are found, auto programming stops and the screen returns automatically to the set up menu.

7 Press CH +/– to check or view the preset channels.



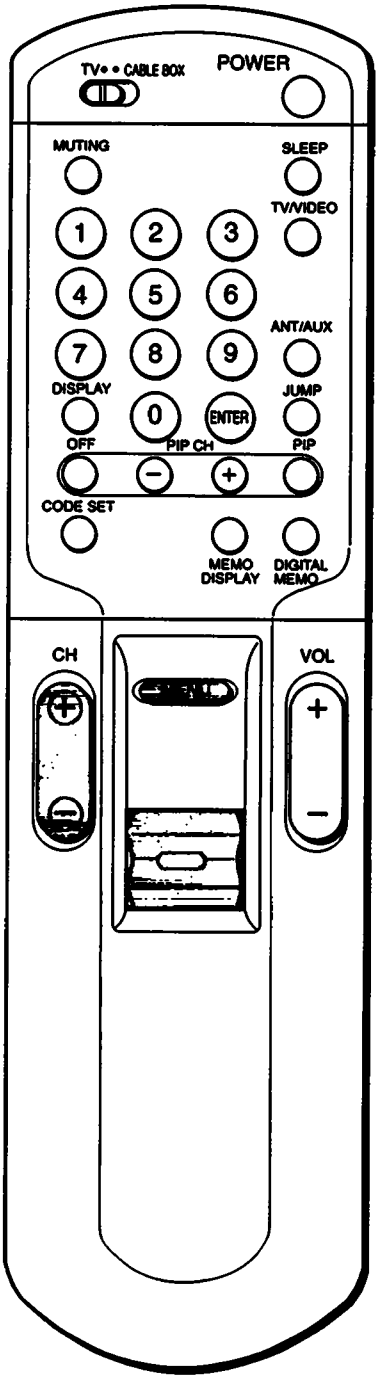
Receivable channels for this TV
VHF: 2 – 13
UHF: 14 – 69
Cable: 1 – 125

To select TV channels without presetting
Press the 0 – 9 buttons and ENTER.

To return to the previous menu
Press the rocker control up or down until the cursor points to " ⊃ MENU."
Then click the rocker control.

To return to the main menu
Repeat the above, until you reach the main menu.

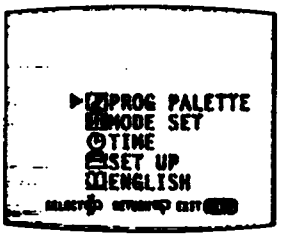
To return to the normal screen.
Press MENU on the Remote Commander.



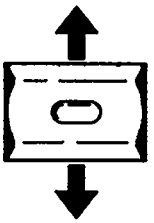
Erasing TV channels

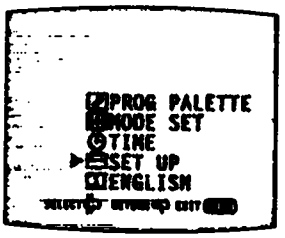
Follow these instructions to erase unnecessary TV channels, so that when you press CH +/–, the channel(s) are skipped.

1 Press MENU.
The main menu appears.

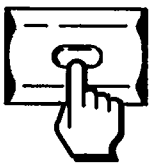


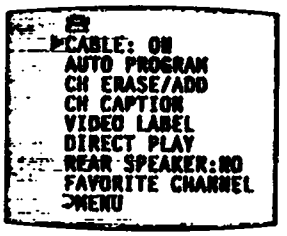
2 Press the rocker control up or down until the cursor points to "SET UP."



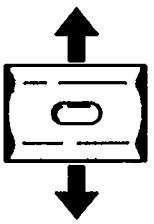


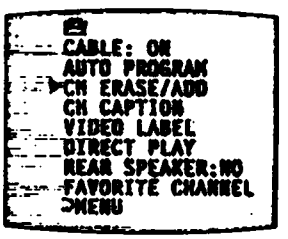
3 Click the rocker control.
The set up menu appears.



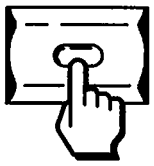


4 Press the rocker control up or down until the cursor points to "CH ERASE/ADD."



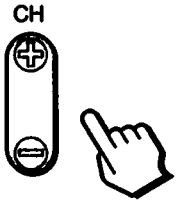


5 Click the rocker control.
The CH ERASE/ADD screen appears, and the cursor points to "ERASE."



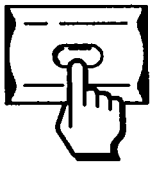
```
CH ERASE/ADD
 ▶ERASE
  ADD
  ↩
Select the channel.
 ERASE:CHANNEL +/-
 ADD:  [0-9]+[ENTER]
 SELECT RETURN EXIT MENU
```

6 Press CH +/– to select the channel you want to erase.
The channel display appears.




```
CH ERASE/ADD
                    8
 ▶ERASE
  ADD
  ↩
Select the channel.
 ERASE:CHANNEL +/-
 ADD:  [0-9]+[ENTER]
 SELECT RETURN EXIT MENU
```

7 Click the rocker control.
A "–" sign appears in front of the channel number display, indicating that the channel is erased; then the CH ERASE/ADD screen automatically reappears.



```
CH ERASE/ADD
                  - 8
 ▶ERASE
  ADD
  ↩
Select the channel.
 ERASE:CHANNEL +/-
 ADD:  [0-9]+[ENTER]
 SELECT RETURN EXIT MENU
```

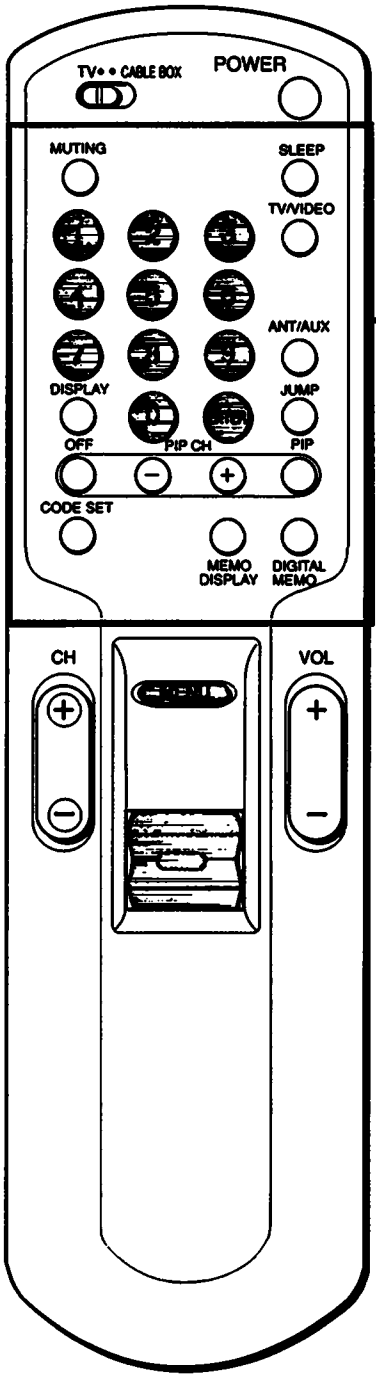
To erase another channel
Repeat steps 6 – 7.

To return to the previous menu
Press the rocker control up or down until the cursor points to " ↩ MENU."
Then click the rocker control.

To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen
Press MENU on the Remote Commander.

Note
If you erase a VHF or UHF channel, the same number cable TV channel is also erased (and vice versa).

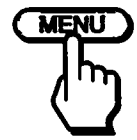


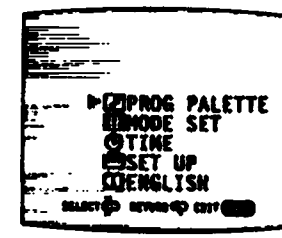
Outer panel

Adding TV channels

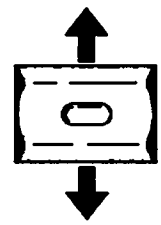
Follow these instructions to add TV channels one by one to the selection memory, or to replace a TV channel you previously erased (pp. 28 – 29).

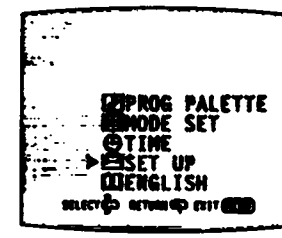
1 Press MENU.
The main menu appears.



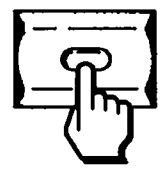


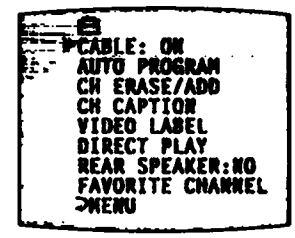
2 Press the rocker control up or down until the cursor points to "SET UP."



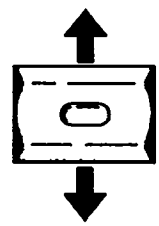


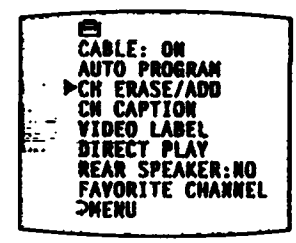
3 Click the rocker control.
The set up menu appears.



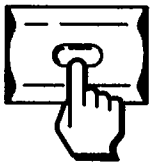


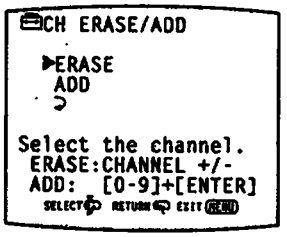
4 Press the rocker control up or down until the cursor points to "CH ERASE/ADD."



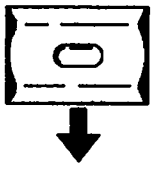


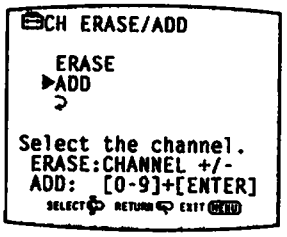
5 Click the rocker control.
The CH ERASE/ADD screen appears.



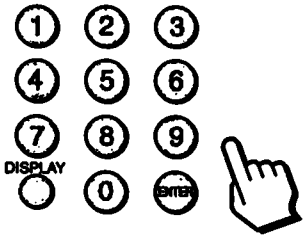


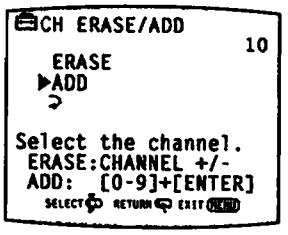
6 Press the rocker control down until the cursor points to "ADD."



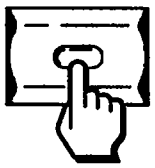


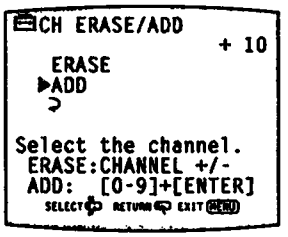
7 Press 0 – 9 and ENTER on the Remote Commander to select the channel you want to add.
The channel display appears.





8 Click the rocker control.
A "+" sign appears in front of the channel number display, indicating that the channel is added; then the CH ERASE/ADD screen automatically reappears.





To add another channel
Repeat steps 7 – 8.

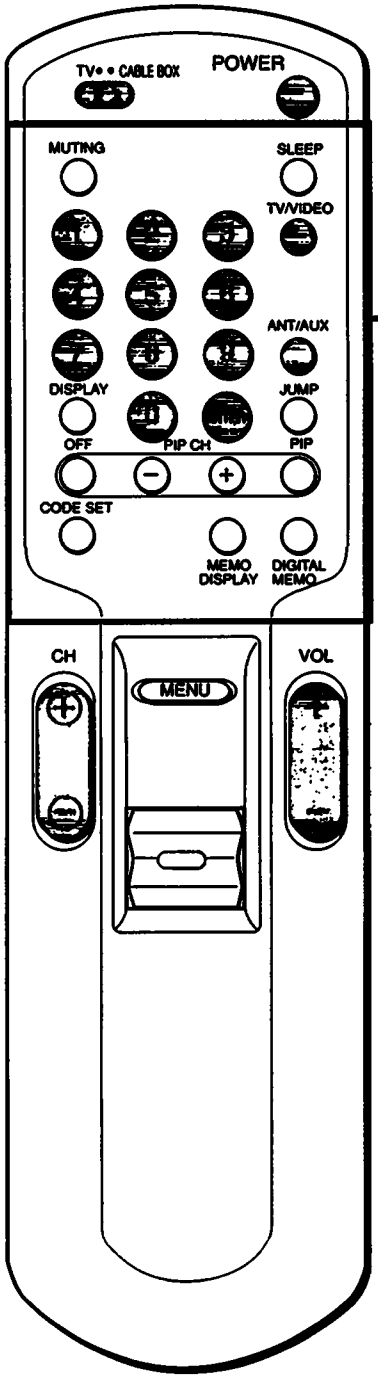
To return to the previous menu
Press the rocker control up or down until the cursor points to " ↩ MENU."
Then click the rocker control.

To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen
Press MENU on the Remote Commander.

Note
If you add a VHF or UHF channel, the same number cable TV channel is also added (and vice versa).

Watching TV Programs



Outer panel

Make sure that the TV/CABLE BOX selector on the Remote Commander is set to TV, in order to control the TV with the Remote Commander.

1 Set the cable connection on or off (pp. 24 – 25) to select the type of channel you want to watch, VHF/UHF or cable TV.

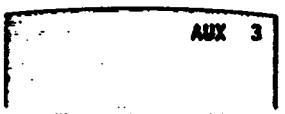
To watch VHF or UHF channels

To watch cable TV channels

Press ANT/AUX to select the type of channel you want to watch, VHF/UHF/ regular cable TV, or pay cable TV connected to the AUX (auxiliary) terminal.

ANT/AUX

To watch VHF, UHF or regular cable TV channels



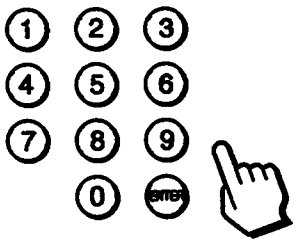
To watch pay cable TV channels

2 Select a channel in one of the following two ways:

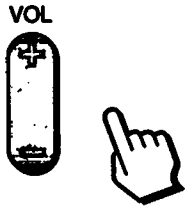
To scan the preset channels in numerical sequence, press CH +/–.

CH

To select a channel directly, press 0 – 9 and then ENTER.
For example, to select channel 10, press 1, 0 and ENTER.



3 Press VOL +/– to adjust the volume.



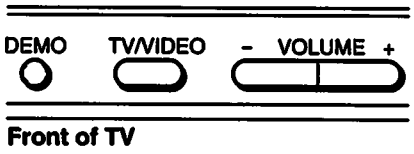
Press + to increase the volume.
Press – to decrease the volume.

If VIDEO 1, VIDEO 2 or VIDEO 3 appears on the screen
Press TV/VIDEO until a TV channel number appears.

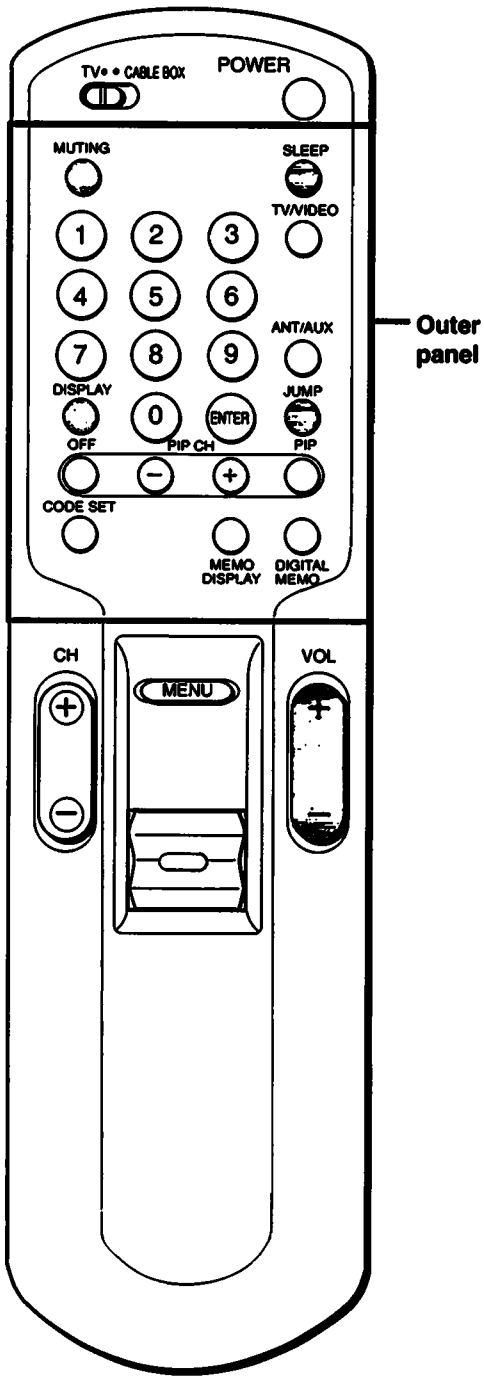
To select channels more easily
Set FAVORITE CHANNEL (pp. 68 – 69).

To turn off the TV
Press POWER.

Using Convenient Features



Front of TV



Outer panel

Muting the sound — MUTING

Press MUTING.
"MUTING" appears on the screen.

To restore the sound
Press MUTING again, or press VOL +.

Keeping the displays on-screen — DISPLAY

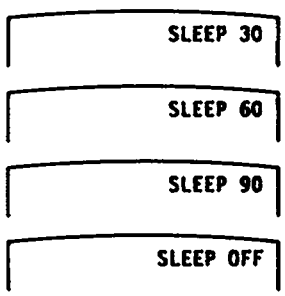
Press DISPLAY.
All the existing displays appear: channel number, channel caption (if set), MTS mode ("SAP" only), window picture input mode, and the current time ("AM" or "PM" disappears after about three seconds).

To turn off the displays
Press DISPLAY again.

Setting the sleep timer — SLEEP

The sleep timer turns off the TV automatically after the amount of time you select.

Press SLEEP.
Each time you press SLEEP, the time increments "30," "60," "90" and "OFF" mode appear in sequence.



A red "SLEEP" display appears about one minute before the TV goes off.

To cancel the setting.
Press SLEEP until OFF mode appears.
A green "SLEEP OFF" display appears for about three seconds.
OR
Turn the TV off.
The sleep timer setting is cancelled.

Switching quickly between two channels — JUMP

Use this function to keep track of two programs alternately.

To recall the channel you were watching previously
Press JUMP.

To switch back to the first channel
Press JUMP again.

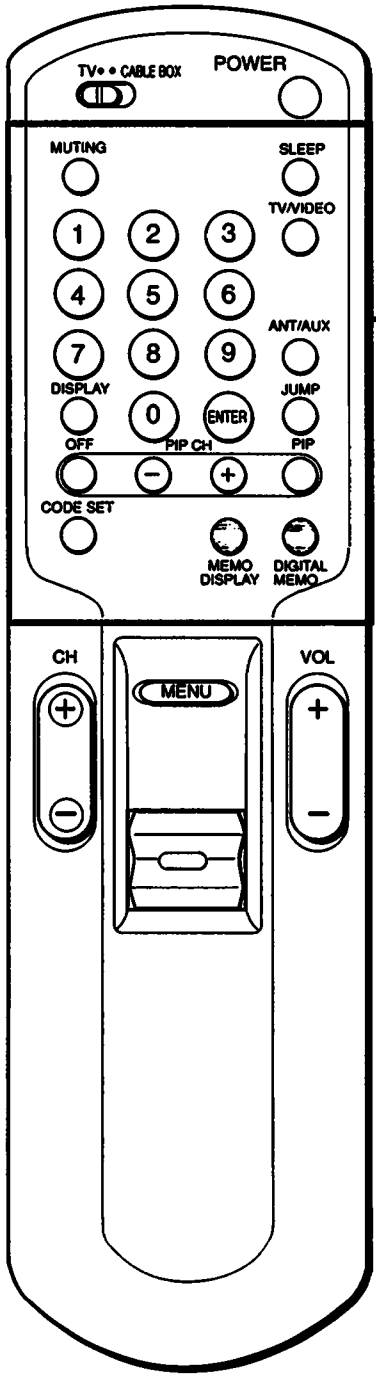
Note
The JUMP function also changes the mode to ANT (antenna) or AUX (auxiliary), depending on the mode of the channel you were watching previously.

Previewing the features — DEMO

Press DEMO.
Functions and menus are displayed one by one.

To restart DEMO from the beginning
Press DEMO again.

To stop DEMO
Press any button.



Storing an image in memory – DIGITAL MEMO

Use this feature to store and recall a recipe from a cooking program, a displayed address or phone number and so on.

1 Press DIGITAL MEMO.
The displayed image is stored in memory, and the image remains still on the screen.

2 Press MEMO DISPLAY.
The TV returns to normal viewing mode.

To recall the stored image

Press MEMO DISPLAY.

The stored picture is retained in memory until:
– you turn off the TV.
– you press OFF (in the PIP section) twice.
– you store a different image.

To return to the normal screen

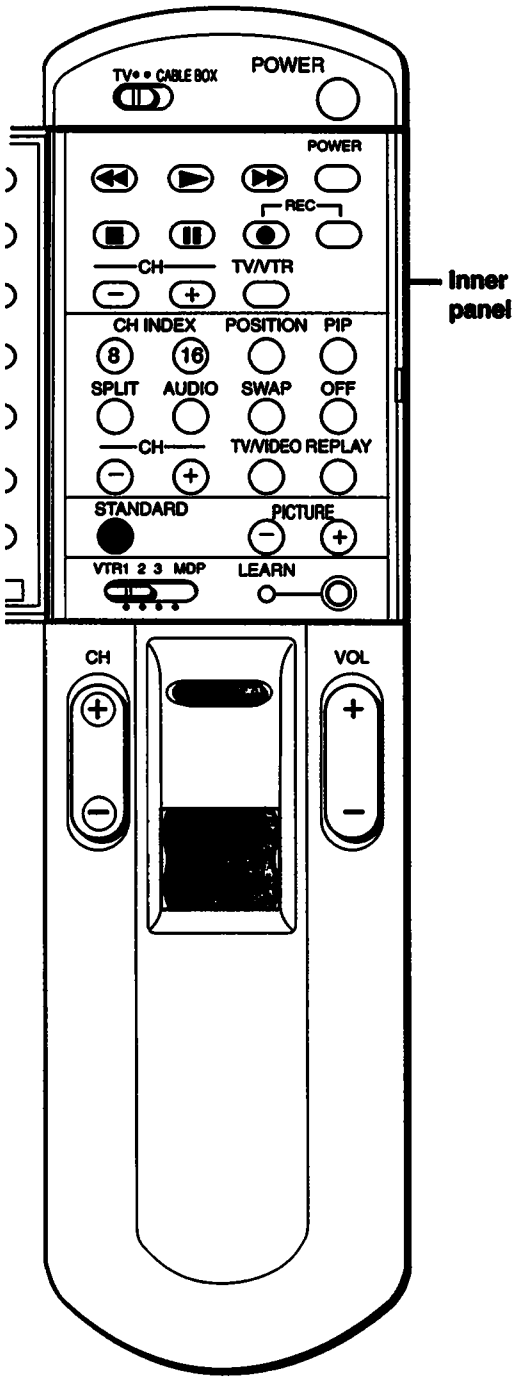
Press MEMO DISPLAY again.

Note
You cannot display a window picture (pp. 39 – 43) while viewing a DIGITAL MEMO screen.

Selecting a Picture and Sound Mode

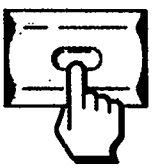
This TV features six modes (STANDARD, MOVIE, SPORTS, NEWS, MUSIC, GAME) that offer different picture and sound qualities. Choose the one that best suits the type of program that you want to watch.

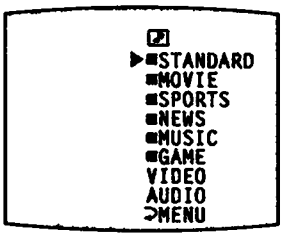
Example: Select MOVIE mode for picture and sound that gives you the sense of being in a movie theater.



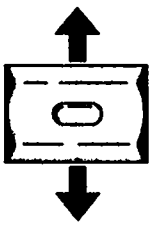
1 Press MENU.
The main menu appears, and the cursor points to "PROG PALETTE."

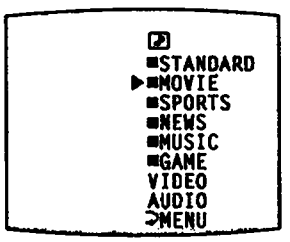
2 Click the rocker control.
The program palette menu appears.



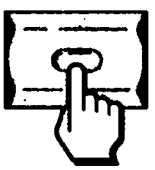


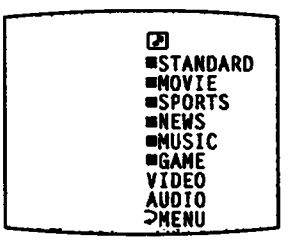
3 Press the rocker control up or down until the cursor points to "MOVIE."





4 Click the rocker control.
The "MOVIE" display turns green, indicating that MOVIE mode is selected.





To select a different mode
Repeat steps 3 – 4.

Selecting standard mode (without using the menus)

Follow these instructions to select standard mode without using the on-screen menus.

Press STANDARD.

When you select STANDARD mode
You receive standard picture and sound quality. Any video or audio adjustments you made ("Adjusting the Picture" pp. 44 – 48; "Adjusting the Sound" pp. 49 – 54) are cancelled and the original factory settings are restored.

When you select MOVIE mode
You receive a finely detailed picture, and a theatrical audio effect.
To further adjust picture and sound qualities, follow the instructions on pp. 44 – 48 and pp. 49 – 54, or select different sound modes from the DSP (Digital Sound Processor) menu (pp. 49 – 50).

When you select SPORTS mode
You receive a vivid, bright picture, and sound with a sports stadium effect.
To further adjust picture and sound qualities, follow the instructions on pp. 44 – 48 and pp. 49 – 54, or select different sound modes from the DSP (Digital Sound Processor) menu (pp. 49 – 50).

When you select NEWS mode
Picture noise is reduced, and you receive clear voice reproduction.
To further adjust picture and sound qualities, follow the instructions on pp. 44 – 48 and pp. 49 – 54, or select different sound modes from the DSP (Digital Sound Processor) menu (pp. 49 – 50).

When you select MUSIC mode
You receive a warmer picture, and live concert effect sound.
To further adjust picture and sound qualities, follow the instructions on pp. 44 – 48 and pp. 49 – 54, or select different sound modes from the DSP (Digital Sound Processor) menu (pp. 49 – 50).

When you select GAME mode
The picture is easier on your eyes, and sound has a surround effect.
To further adjust picture and sound qualities, follow the instructions on pp. 44 – 48 and pp. 49 – 54, or select different sound modes from the DSP (Digital Sound Processor) menu (pp. 49 – 50).

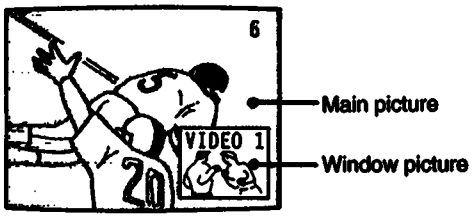
To return to the previous menu
Press the rocker control up or down until the cursor points to " ⊃ MENU."
Then click the rocker control.

To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen.
Press MENU on the Remote Commander.

Watching Two or More Pictures at Once (PIP)

You can watch both the main picture and one or more window pictures simultaneously, using the Picture-in-Picture (PIP) function.



Picture-in-Picture special features
When watching the main picture and a window picture, you can:

- Choose the sound from the main or window picture (AUDIO).
- Change the position of the window picture (POSITION).
- Swap the main and window pictures (SWAP).
- Replay the main picture as a window picture (REPLAY).
- Split the screen, with the main picture on one side and the window picture on the other side (SPLIT).
- Display 8 or 16 TV channels simultaneously (CH INDEX 8/16).

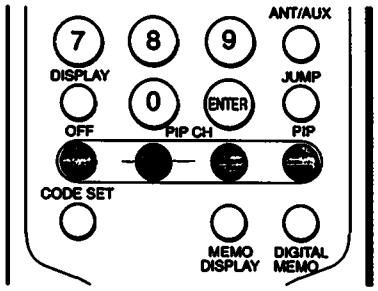
Notes

- You can also use the CH +/– buttons on the Remote Commander's inner panel.
- The video label and channel caption will not appear with the window picture even if you have set them.
- If you select a blocked channel in the window picture, the display "BLOCKED" appears with the window picture. (See "Setting CHANNEL BLOCK," pp. 64 – 65.)
- If you display a DIGITAL MEMO screen (p. 36), the window picture disappears.

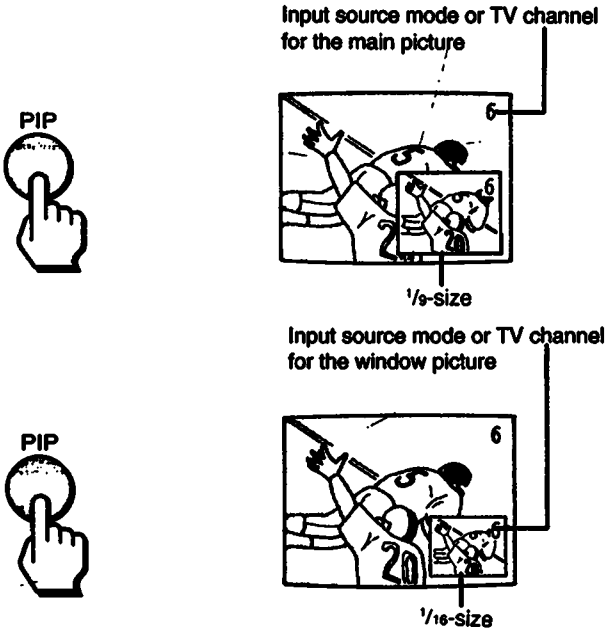
Displaying a window picture

To turn PIP mode on or off, or to change TV channels, you can use the PIP buttons on the Remote Commander's outer panel. For other PIP functions, use the inner panel controls, which also include the PIP, OFF and CH +/– buttons.

Remote Commander (Outer panel)



Press PIP to display a window picture


Input source mode or TV channel for the main picture
PIP
1/9-size
Input source mode or TV channel for the window picture
PIP
1/16-size

A window picture appears in the last mode you watched. Each time you press PIP, a 1/9 or 1/16 size window picture appears alternately.

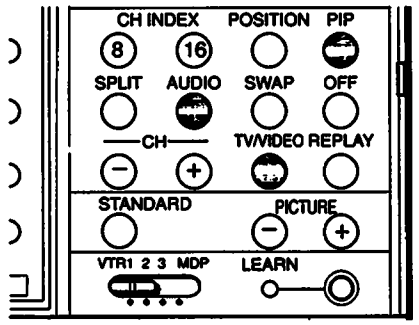
To turn PIP function off
Press OFF.
The window picture disappears.

To change TV channels in the window picture
Press TV/VIDEO to select TV mode; then press CH +/– in the PIP control area.

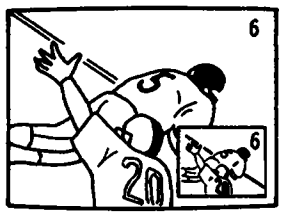
Changing the window picture input mode

Follow these instructions to select the input mode (TV/ VIDEO 1, VIDEO 2, VIDEO 3) for the window picture.

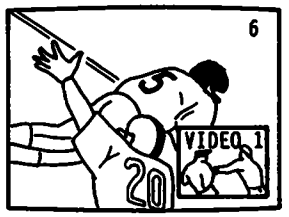
Remote Commander (Inner panel)



1 Press PIP to display a window picture.



2 Press TV/VIDEO to select the input mode.
Each time you press TV/VIDEO, "TV," "VIDEO 1," "VIDEO 2" and "VIDEO 3" appear in sequence.



To receive the window picture sound
Press AUDIO.

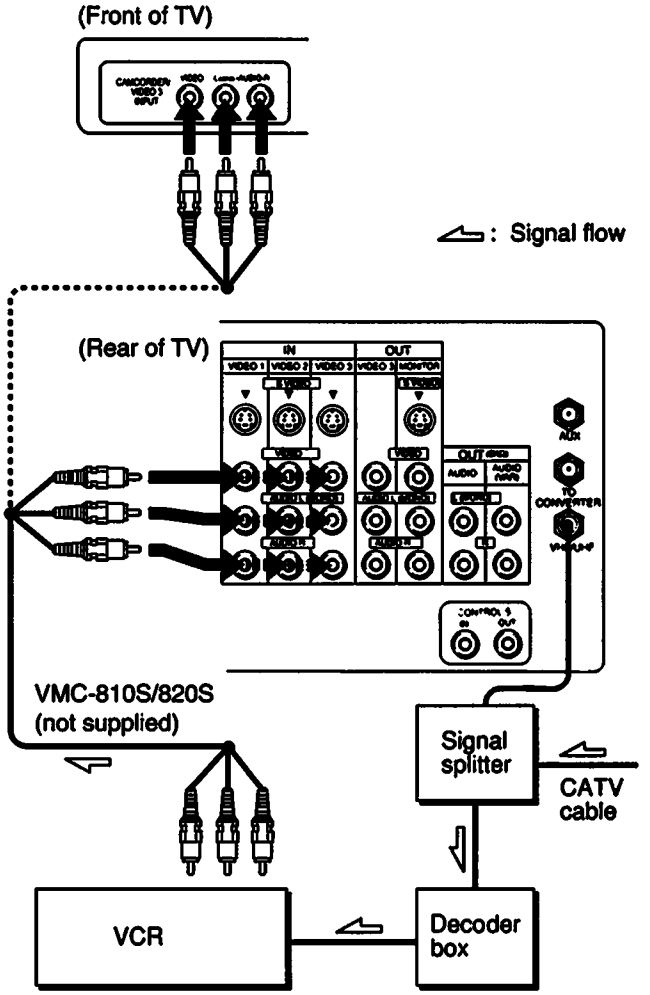
The ♪ display appears for a few seconds, indicating that the window picture sound is being received.

To restore the main picture sound
Press AUDIO again.

Note
The window picture sound is also output from the AUDIO (VAR) OUT jacks. The AUDIO OUT and MONITOR OUT jacks output the main picture sound only.

Displaying CATV input as a window picture

To use Picture-in-Picture with pay cable TV input, make the connections to your cable converter box as shown below.



After making the above connections, turn the cable connection on by following the steps on pp. 24 – 25; then continue with the steps below.

1–2 Follow steps 1 – 2 in "Changing the window picture input mode" on this page to select the video input mode for your connected VCR.

3 Put your VCR on an inactive channel (channel 3 or 4).

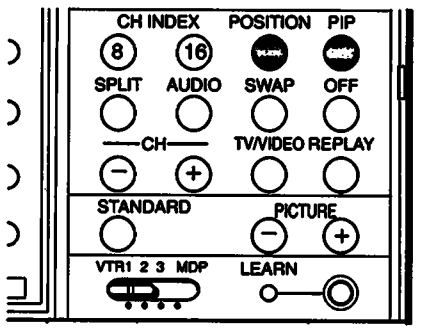
4 Change pay cable TV channels with the decoder box.

To control your cable converter box with the supplied Remote Commander
See p. 72.

Changing the position of the window picture

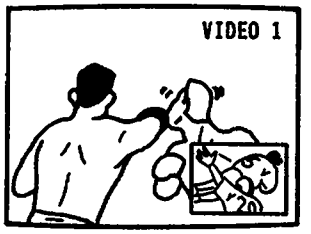
Follow these instructions to change the position of the window picture on the screen.

Remote Commander (inner panel)



1 Press PIP to display a window picture.

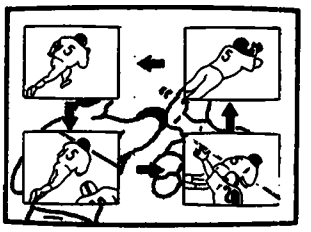
PIP



2 Press POSITION.

Each time you press POSITION, the window picture moves as illustrated.

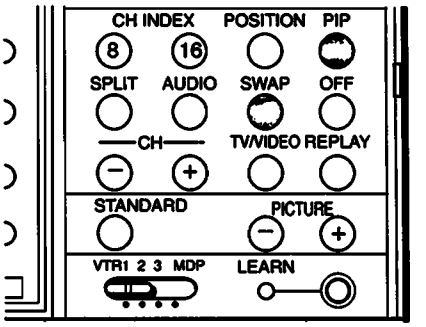
POSITION



Swapping the main and window pictures

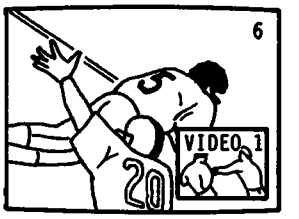
Follow these instructions to swap the input signals of the main and window pictures.

Remote Commander (inner panel)



1 Press PIP to display a window picture.

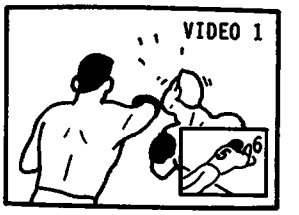
PIP



2 Press SWAP.

Each time you press SWAP, the images from the main and window pictures switch places.

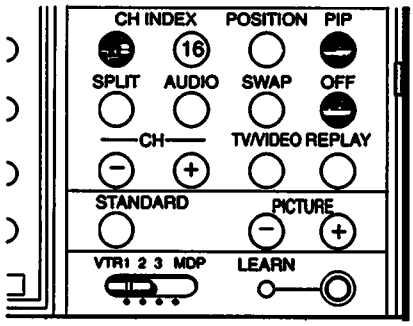
SWAP



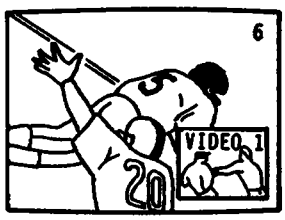
Displaying 8 TV channels at once – CH INDEX 8

Follow these instructions to display the main picture and 7 window pictures at once.

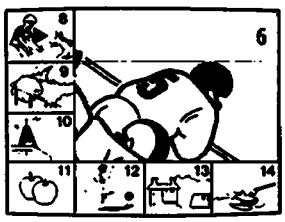
Remote Commander (Inner panel)



1 Press PIP to display a window picture.



2 Press CH INDEX 8 to display seven window pictures.
Seven TV channels appear in numerical sequence, as window pictures.



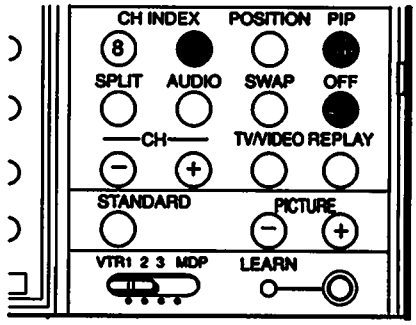
Each time you press CH INDEX 8, the next seven sequential channels appear (the main picture does not change).

To return to the normal screen
Press OFF.

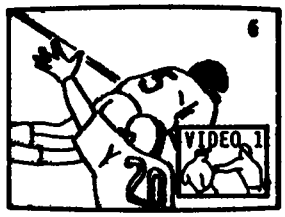
Displaying 16 TV channels at once – CH INDEX 16

Follow these instructions to display 16 window pictures at once.

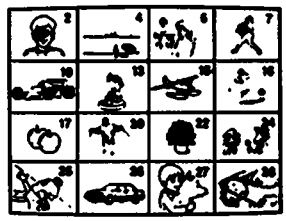
Remote Commander (Inner panel)



1 Press PIP to display a window picture.



2 Press CH INDEX 16 to display 16 window pictures.
16 TV channels appear in numerical sequence, as window pictures.



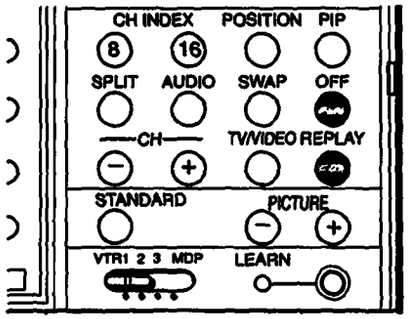
Each time you press CH INDEX 16, the next 16 sequential channels appear (the main picture does not change).

To return to the normal screen
Press OFF.

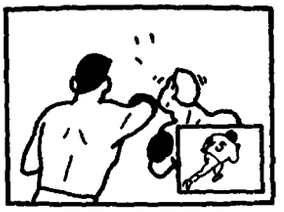
Replaying the main picture as a window picture

Follow these instructions to replay the image that appeared in the main picture two seconds before, as a window picture.

Remote Commander (inner panel)



Press REPLAY.

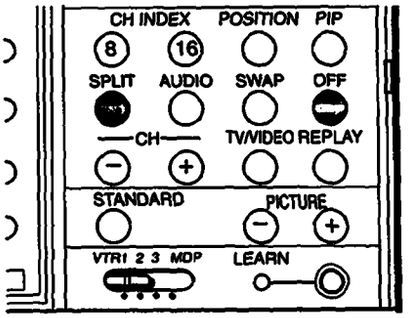


To return to the normal screen
Press OFF.

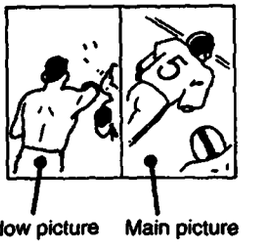
Splitting the screen

Follow these instructions to split the screen, with the window picture on the left, and the main picture on the right.

Remote Commander (inner panel)



Press SPLIT.



To return to the normal screen
Press OFF.

Note
When using SPLIT, vertical lines may appear elongated.

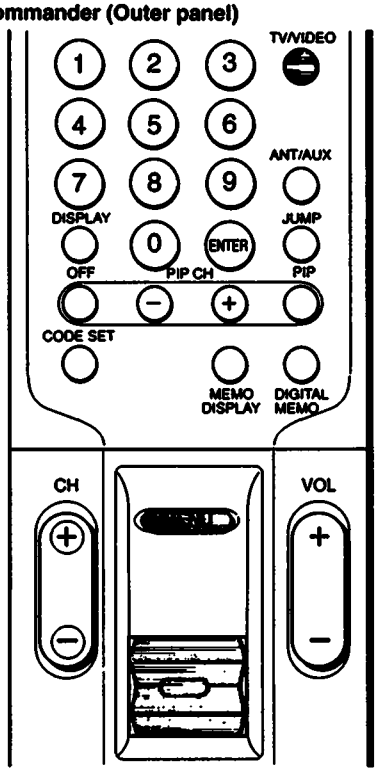
Adjusting the Picture

You can adjust the picture (and sound, pp. 51 – 54) for each input mode (TV, VIDEO 1, VIDEO 2, VIDEO 3) by pressing TV/VIDEO on the TV or on the Remote Commander to select the input mode, before making the adjustments. These adjustments are retained in memory even when you turn off the TV, but are cancelled after you change the adjustments, or select a picture and sound mode (pp. 37 – 38).

Adjusting picture quality

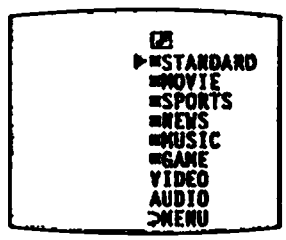
Follow these instructions to adjust PICTURE, HUE, COLOR, BRIGHT (brightness) and SHARP (sharpness).

Remote Commander (Outer panel)



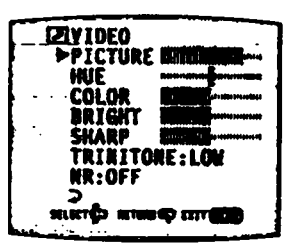
1 Press MENU.
The main menu appears, and the cursor points to "PROG PALETTE."

2 Click the rocker control.
The program palette menu appears.



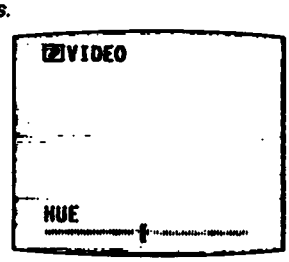
3 Press the rocker control up or down until the cursor points to "VIDEO."

4 Click the rocker control.
The VIDEO screen appears.



5 Press the rocker control up or down until the cursor points to the item you want to adjust.

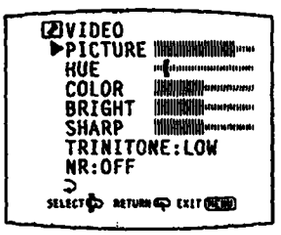
6 Click the rocker control.
The adjustment screen appears.



7 Press the rocker control up or down to make the adjustment.

Picture quality	Press the rocker control down	Press the rocker control up
PICTURE	For decreased picture contrast with soft color	For increased picture with vivid color
HUE	Skin tones become purplish	Skin tones become greenish
COLOR	For less color intensity	For more color intensity
BRIGHT	For less brightness	For more brightness
SHARP	For less sharpness	For more sharpness

8 Click the rocker control.
The adjustment is complete, and the VIDEO screen automatically reappears.

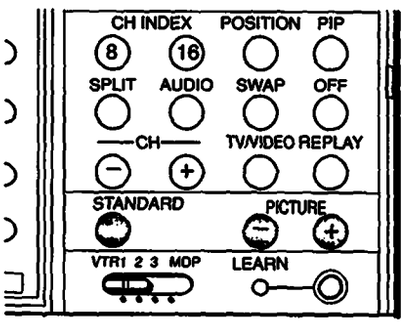


To adjust other items
Repeat steps 5 – 8.

To restore the factory settings for all the items
Select "STANDARD" on the program palette menu, and click the rocker control;
or, press STANDARD on the Remote Commander.
All the items, including TRINITONE (p. 46) and NR (p. 47) return to their original factory settings.

To adjust picture contrast
You can also adjust picture contrast with the PICTURE +/– buttons on the Remote Commander.

(Inner panel)



Press + to increase picture contrast with vivid color.
Press – to decrease picture contrast with soft color.
The picture adjustment screen appears.

To return to the previous menu
Press the rocker control up or down until the cursor points to " ⊃ MENU."
Then click the rocker control.

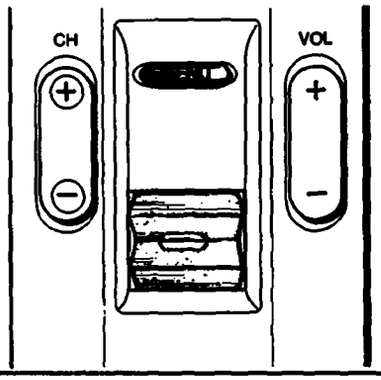
To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen
Press MENU on the Remote Commander.

Setting the TRINITONE mode

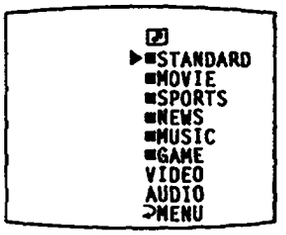
Color picture tubes are usually manufactured with a fixed color temperature (tint) that determines the "warmth" (red tint) or "coolness" (blue tint) of the picture. Use the Sony Trinitone feature to adjust the picture color to your preference.

Remote Commander



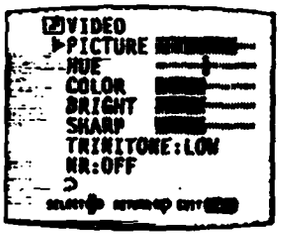
1 Press MENU.
The main menu appears, and the cursor points to "PROG PALETTE."

2 Click the rocker control.
The program palette menu appears.



3 Press the rocker control up or down until the cursor points to "VIDEO."

4 Click the rocker control.
The VIDEO screen appears.



5 Press the rocker control up or down until the cursor points to "TRINITONE."

6 Click the rocker control.
The mode display turns red.

7 Press the rocker control up or down to select "HIGH" or "LOW."

Select "HIGH" to make the picture cool (bluish).
Select "LOW" to make the picture warm (reddish).

8 Click the rocker control.
The setting is complete.

To return to the previous menu
Press the rocker control up or down until the cursor points to " ↩ MENU."
Then click the rocker control.

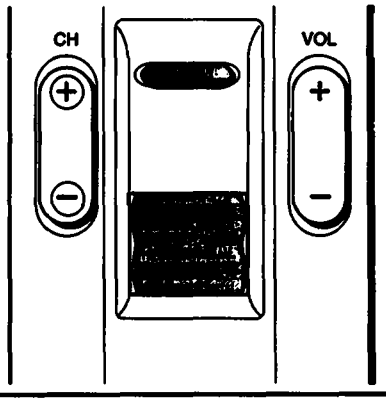
To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen
Press MENU on the Remote Commander.

Setting NR (picture noise reduction) ON or OFF

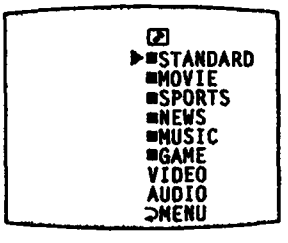
Follow these instructions to reduce picture noise.

Remote Commander



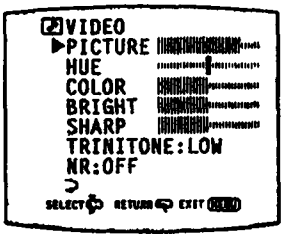
1 Press MENU.
The main menu appears, and the cursor points to "PROG PALETTE."

2 Click the rocker control.
The program palette menu appears.

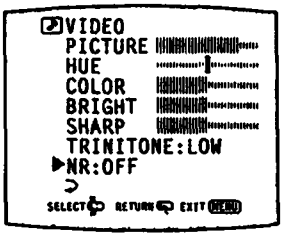


3 Press the rocker control up or down until the cursor points to "VIDEO."

4 Click the rocker control.
The VIDEO screen appears.



5 Press the rocker control up or down until the cursor points to "NR."



6 Click the rocker control.
The mode display turns red.

7 Press the rocker control up or down to select "ON" or "OFF."

Select "ON" to reduce picture noise.
Select "OFF" to restore the normal picture.

8 Click the rocker control.
The setting is complete.

To return to the previous menu
Press the rocker control up or down until the cursor points to " ⊃ MENU."
Then click the rocker control.

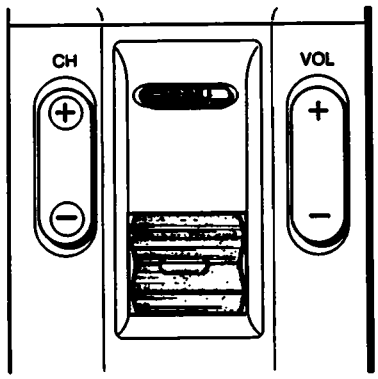
To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen
Press MENU on the Remote Commander.

Setting S-VIDEO ON or OFF

Follow these instructions to set S-VIDEO on or off, depending on the kind of video equipment you have connected to the TV. For instructions on connecting video equipment, see pp. 15 – 18.

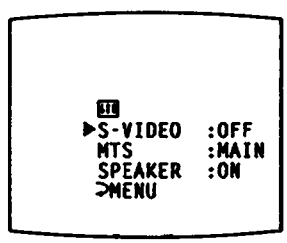
Remote Commander (Outer panel)



1 Press MENU.
The main menu appears.

2 Press the rocker control up or down until the cursor points to "MODE SET."

3 Click the rocker control.
The mode set menu appears, with the cursor pointing to "S-VIDEO."



4 Click the rocker control.
The mode display turns red.

5 Press the rocker control up or down to select "ON" or "OFF."

6 Click the rocker control.
The setting is complete.

To return to the previous menu
Press the rocker control up or down until the cursor points to " ⊃ MENU."
Then click the rocker control.

To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen
Press MENU on the Remote Commander.

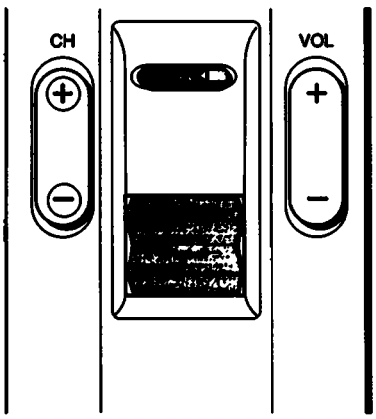
Adjusting the Sound

Selecting a sound mode

Use the DSP (Digital Sound Processor) menu to select the sound mode that best suits the type of sound you are listening to.

Example: Select JAZZ CLUB mode to enhance the effect when viewing a musical performance.

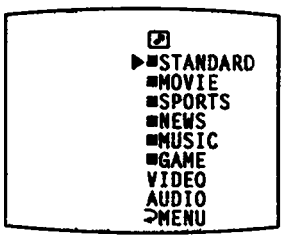
Remote Commander



1 Press MENU.
The main menu appears

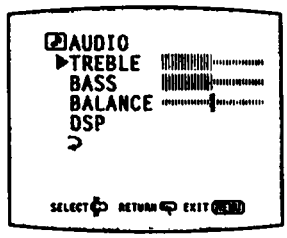
2 Press the rocker control up or down until the cursor points to "PROG PALETTE."

3 Click the rocker control.
The program palette menu appears.



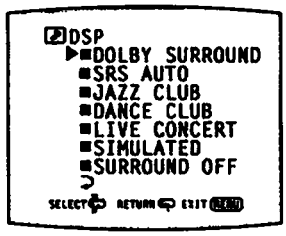
4 Press the rocker control up or down until the cursor points to "AUDIO."

5 Click the rocker control.
The AUDIO screen appears.



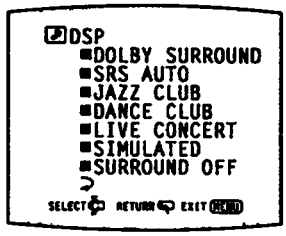
6 Press the rocker control up or down until the cursor points to "DSP."

7 Click the rocker control
The DSP menu appears.



8 Press the rocker control up or down until the cursor points to "JAZZ CLUB."

9 Click the rocker control.
JAZZ CLUB mode is selected.



To select a different mode
Repeat steps 8 – 9. (See the next page for the different modes you can choose.)

To further adjust the sound
Follow the instructions on pp. 51 – 52.

To return to the previous menu
Press A/V WINDOW +/– until the cursor points to
" ⊃ MENU."
Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen.
Press MENU on the Remote Commander.

When you select DOLBY SURROUND* mode
You receive wraparound sound with three-dimensional** audio depth and presence when you connect main speakers and optional rear speakers.

Note
You must set REAR SPEAKER to "YES" (p. 54), or the display is blacked out and cannot be selected.
When using rear speakers, control the volume with the REAR VOLUME adjustment screen.

When you select SRS AUTO mode
You receive powerfully realistic sound that recaptures audio "clues" originally present but masked in the recording process, so that the action seems to happen all around you.

When you select JAZZ CLUB mode
You receive sound that gives a sense of space, with a touch of echo added.

When you select DANCE CLUB mode
You receive the sound effect of the hard floor and wall environment of a dance club.

When you select LIVE CONCERT mode
You receive sound that simulates the effect of being present at a live concert.

When you select SIMULATED mode
You receive monaural sound with a surround-like effect.

When you select SURROUND OFF mode
You receive sound without a surround effect.

To further adjust sound qualities
Follow the instructions on pp. 51 – 52.

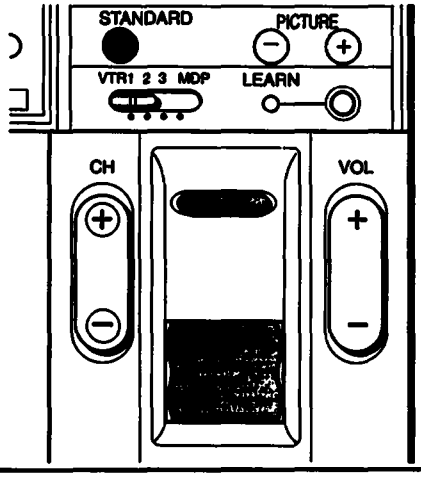
* Manufactured under license from Dolby Laboratories Licensing Corporation. Additionally licensed under one or more of the following patents: U.S. numbers 3,632,886, 3,746,792 and 3,959,590; Canadian numbers 1,004,603 and 1,037,877. "Dolby" and the double-D symbol ◻◻ are trademarks of Dolby Laboratories Licensing Corporation.

**Three-dimensional qualities apply to sound sources identified by the DOLBY SURROUND mark (◻◻).

Adjusting sound quality

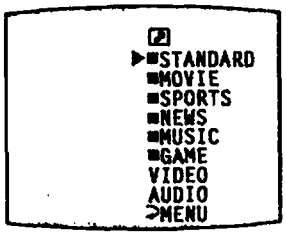
Follow these instructions to adjust the TREBLE, BASS and BALANCE.

Remote Commander (Inner panel)



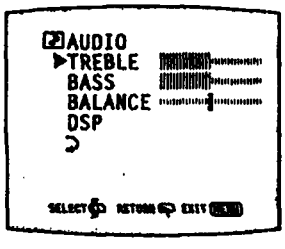
1 Press MENU.
The main menu appears, and the cursor points to "PROG PALETTE."

2 Click the rocker control.
The program palette menu appears.



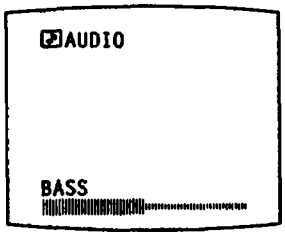
3 Press the rocker control up or down until the cursor points to "AUDIO."

4 Click the rocker control.
The AUDIO screen appears.



5 Press the rocker control up or down until the cursor points to the item you want to adjust.

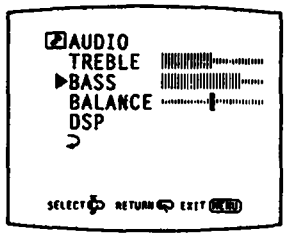
6 Click the rocker control.
The adjustment screen appears.



7 Press the rocker control up or down to make the adjustment.

Sound quality	Press the rocker control down	Press the rocker control up
TREBLE	To decrease the treble response	To increase the treble response
BASS	To decrease the bass response	To increase the bass response
BALANCE	To emphasize the left speaker's volume	To emphasize the right speaker's volume

8 Click the rocker control.
The adjustment is complete, and the AUDIO screen automatically reappears.



To adjust other items
Repeat steps 5 – 9.

To restore the factory settings for all the items
Select "STANDARD" on the program palette menu, and click the rocker control; or, press STANDARD on the Remote Commander.
All the items return to their original factory settings.

To return to the previous menu
Press the rocker control up or down until the cursor points to " ↩ MENU." Then click the rocker control.

To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen
Press MENU on the Remote Commander.

Selecting an MTS (Multichannel TV Sound) mode

Follow these instructions to select an MTS mode.

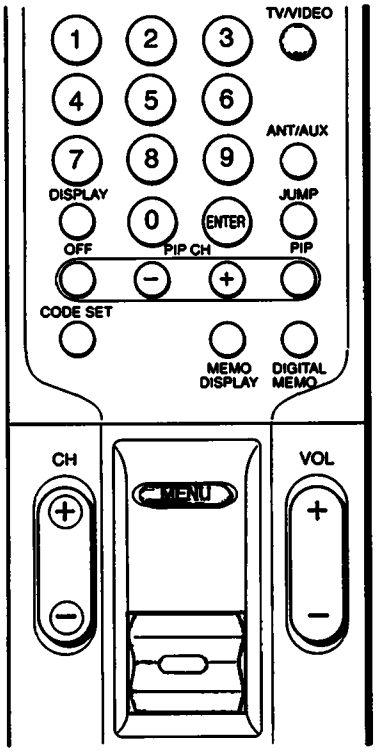
Select MAIN mode to listen to stereo sound.
The STEREO lamp on the TV lights up whenever a stereo broadcast is received.

Select SAP mode to listen to Second Audio Programs.

Select MONO mode to eliminate excessive noise during stereo broadcasts, caused by a weak incoming signal.

Note
If the TV is in video mode, the "MTS" display is shaded and cannot be selected.
Press TV/VIDEO on the TV or on the Remote Commander to change to TV mode.

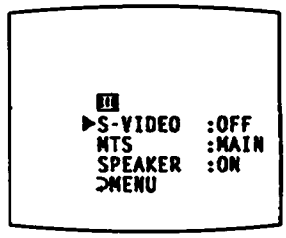
Remote Commander (Outer panel)



1 Press MENU.
The main menu appears.

2 Press the rocker control up or down until the cursor points to "MODE SET."

3 Click the rocker control.
The mode set menu appears.



4 Press the rocker control up or down until the cursor points to "MTS."

5 Click the rocker control.
The mode display turns red.

6 Press the rocker control up or down to select the mode you want.
Each time you press the rocker control up or down, "MAIN," "SAP" and "MONO" appear in sequence.

7 Click the rocker control.
The mode is selected.

To return to the previous menu
Press the rocker control up or down until the cursor points to " ⊃ MENU." Then click the rocker control.

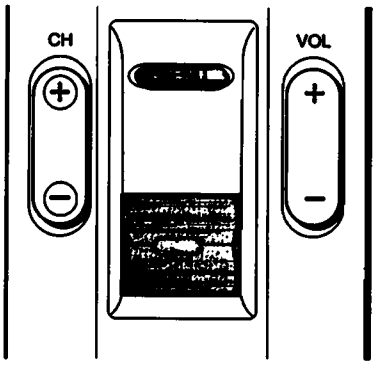
To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen
Press MENU on the Remote Commander.

Setting SPEAKER ON or OFF

Follow these instructions to turn the TV speakers off when you connect an audio system (p.19), and on when you want to listen to the sound from the TV speakers.

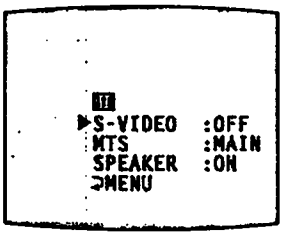
Remote Commander



1 Press MENU.
The main menu appears.

2 Press the rocker control up or down until the cursor points to "MODE SET."

3 Click the rocker control.
The mode set menu appears.



4 Press the rocker control up or down until the cursor points to "SPEAKER."

5 Click the rocker control.
The mode display turns red.

6 Press the rocker control up or down to select "ON" or "OFF."

7 Click the rocker control.
The setting is complete.

To return to the previous menu
Press the rocker control up or down until the cursor points to " ↩ MENU."
Then click the rocker control.

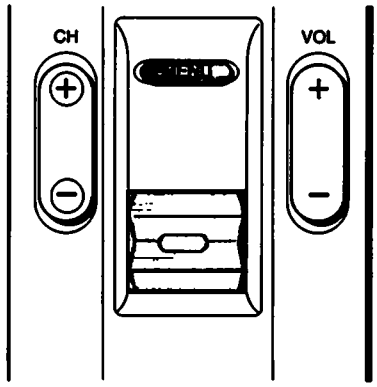
To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen
Press MENU on the Remote Commander.

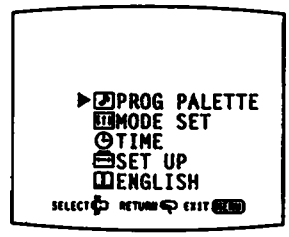
Setting REAR SPEAKER

Set REAR SPEAKER to "YES" to use the detachable or optional speakers as rear speakers (pp. 11 – 12).

Remote Commander

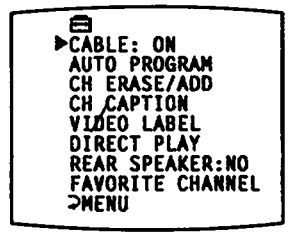


1 Press MENU.
The main menu appears.



2 Press the rocker control up or down until the cursor points to "SET UP."

3 Click the rocker control.
The set up menu appears.

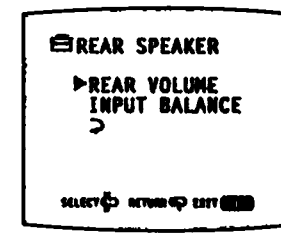


4 Press the rocker control up or down until the cursor points to "REAR SPEAKER."

5 Click the rocker control.
The mode display turns red.

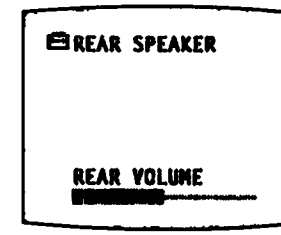
6 Press the rocker control up to select "YES."

7 Click the rocker control.
The REAR SPEAKER screen appears.



8 Press the rocker control up or down until the cursor points to the item you want to adjust.

9 Click the rocker control.
The adjustment screen appears.



10 Use the rocker control to make the adjustment.

REAR VOLUME Press the rocker control down to decrease the rear speaker volume. Press the rocker control up to increase the rear speaker volume.
INPUT BALANCE Press the rocker control down to improve the input balance. (Set to the lowest point for best input balance. Little or no sound is heard from the rear speakers.)

Notes

- Setting REAR SPEAKER to "NO" does not turn off the rear speaker sound. Control the rear speaker volume with the REAR VOLUME adjustment.
- While the INPUT BALANCE adjustment screen is displayed, the sound from the front speakers is cut off.

11 Click the rocker control.
The setting is complete.

To set REAR SPEAKER to "NO"
Repeat steps 1 – 11, and select "NO" in step 6.

To return to the previous menu
Press the rocker control up or down until the cursor points to " ⊃ MENU." Then click the rocker control.

To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen
Press MENU on the Remote Commander.

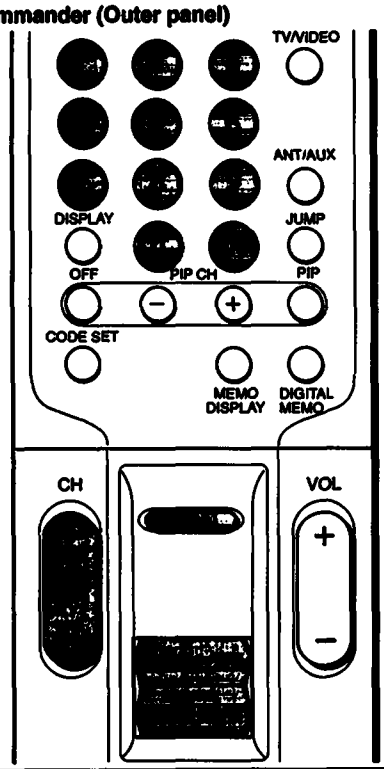
Customizing the Screen Display

Setting channel captions — CH CAPTION

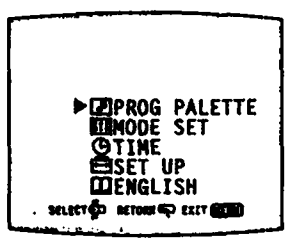
Follow these instructions to caption each channel number display with a name, for instance, the television station call letters. (You can set up to four letters or numbers).

Example: Caption channel 15 as "NBC."

Remote Commander (Outer panel)

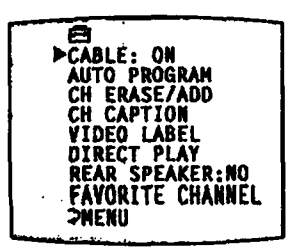


1 Press MENU.
The main menu appears.



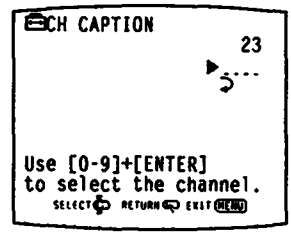
2 Press the rocker control up or down until the cursor points to "SET UP."

3 Click the rocker control.
The set up menu appears.

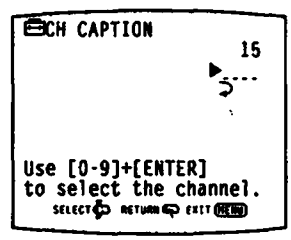


4 Press the rocker control up or down until the cursor points to "CH CAPTION."

5 Click the rocker control.
The CH CAPTION screen appears.

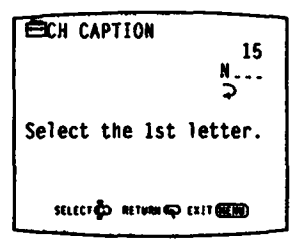


6 Press CH +/–, or press 1, 5 and ENTER to set channel "15."



7 Click the rocker control.
The first caption space turns red.

8 Press the rocker control up or down to select "N."
Each time you press the rocker control up or down, "0" – "9," "A" – "Z," "&," "/," "-" and "_" (blank space) appear in sequence.

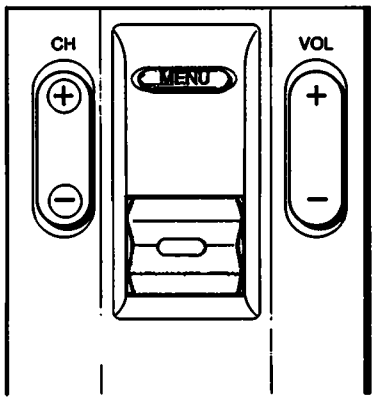


9 Click the rocker control.
The second caption space turns red.

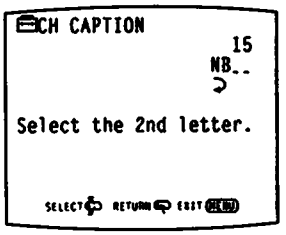
(Continued)

Setting channel captions – CH CAPTION
(Cont'd. from prev. page)

Remote Commander

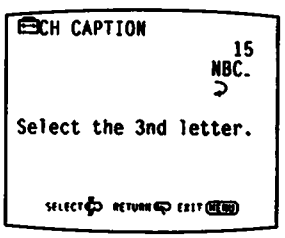


10 Press the rocker control up or down to select "B."



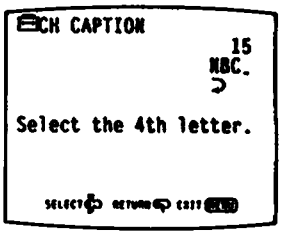
11 Click the rocker control.
The third caption space turns red.

12 Press the rocker control up or down to select "C."



13 Click the rocker control.
The fourth caption space turns red.

14 Press the rocker control up or down to select a blank space.



15 Click the rocker control.
The setting is complete.
When you select or display the channel number, the channel caption also appears.

To caption more channels
Repeat steps 6 – 15.

To erase unnecessary captions
Display the CH CAPTION screen, select the channel with the caption you want to erase, and select blank spaces for the channel caption; then click the rocker control.
The caption for that channel is erased.

To return to the previous menu
Press the rocker control up or down until the cursor points to " ⊃ MENU."
Then click the rocker control.

To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen
Press MENU on the Remote Commander.

Note
You can set up to 32 channel captions. If the memory is full, "The memory is full, sorry" appears on the screen. Erase any unnecessary captions, and begin again.

Setting VIDEO LABEL

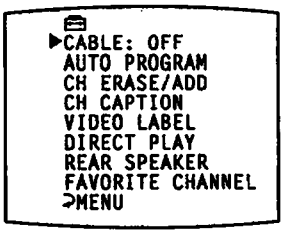
Follow these instructions to label each input mode, in order to identify the equipment connected to each input terminal.

Example: Label VIDEO 1 IN as "VHS."

1 Press MENU.
The main menu appears.

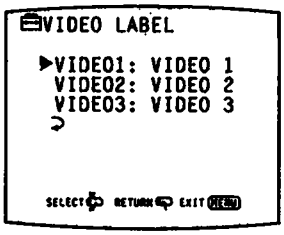
2 Press the rocker control up or down until the cursor points to "SET UP."

3 Click the rocker control.
The set up menu appears.



4 Press the rocker control up or down until the cursor points to "VIDEO LABEL."

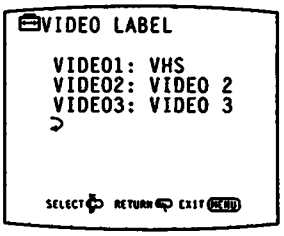
5 Click the rocker control.
The VIDEO LABEL screen appears.



6 Press the rocker control up or down until the cursor points to the input mode you want to label. (In this case, the cursor is already pointing to "VIDEO 1.")

7 Click the rocker control.
The label display turns red.

8 Press the rocker control up or down to select "VHS."



Each time you press the rocker control up or down, the label changes:

VIDEO 1 → BETA → 8mm → VHS → LD → S-VIDEO → (back to VIDEO 1)

9 Click the rocker control.
The setting is complete.
When you select or display the video mode, the video label appears.

To label other input modes
Repeat steps 6 – 9.

To change a label
Same as above.

To return to the previous menu
Press the rocker control up or down until the cursor points to " ↩ MENU." Then click the rocker control.

To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen
Press MENU on the Remote Commander.

Using Timer-Activated Functions

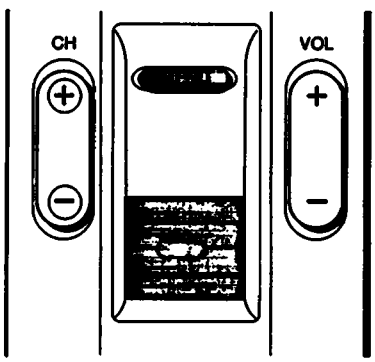
Setting DAYLIGHT SAVING

If you live in an area that uses daylight savings time, set DAYLIGHT SAVING to "YES" or "NO" depending on the season, before setting the current time. At the next daylight savings date, you will be able to automatically adjust all the time-related settings (CURRENT TIME, ON/OFF TIMER and CHANNEL BLOCK) simply by changing the DAYLIGHT SAVING setting.

When setting DAYLIGHT SAVING:

- **After the first Sunday in April (spring daylight savings)**
  Set to "YES" before setting the current time.
  Then, on the last Sunday in October (fall daylight savings), set to "NO."
  All the time-related settings automatically move one hour back.
- **After the last Sunday in October (fall daylight savings)**
  Set to "NO" before setting the current time.
  Then, on the first Sunday in April (spring daylight savings), set to "YES."
  All the time-related settings automatically move one hour ahead.

Remote Commander

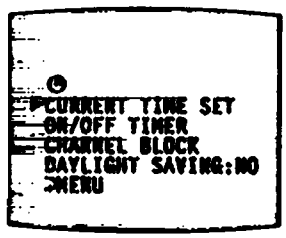


Follow these instructions to set DAYLIGHT SAVING to "YES" or "NO."

1 Press MENU.
The main menu appears.

2 Press the rocker control up or down until the cursor points to "TIME."

3 Click the rocker control.
The time menu appears.



4 Press the rocker control up or down until the cursor points to "DAYLIGHT SAVING."

5 Click the rocker control.
The mode display turns red.

6 Press the rocker control up or down to select "YES" or "NO."
The setting is complete.

7 Click the rocker control.

To return to the previous menu
Press the rocker control up or down until the cursor points to " ↩ MENU."
Then click the rocker control.

To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen.
Press MENU on the Remote Commander.

Setting the clock — CURRENT TIME SET

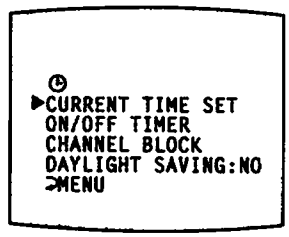
Follow these instructions to set the current time. The correct current time must be set in order to use the other time-related functions (DAYLIGHT SAVING, ON/OFF TIMER, CHANNEL BLOCK).

Example: Set the time to 3:15 PM, Monday.

1 Press MENU.
The main menu appears.

2 Press the rocker control up or down until the cursor points to "TIME."

3 Click the rocker control.
The time menu appears, and the cursor points to "CURRENT TIME SET."



4 Click the rocker control again.
The CURRENT TIME SET screen appears, with a reminder to set DAYLIGHT SAVING.

If you do not need to set DAYLIGHT SAVING, click the rocker control and continue from step 5.

To set daylight saving

a Press the rocker control up or down until the cursor points to "DAYLIGHT SAVING."

b Click the rocker control.
The time menu appears, and the cursor points to "DAYLIGHT SAVING."

c Click the rocker control.

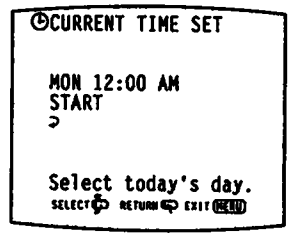
d Press the rocker control up or down to select "YES" or "NO."

e Click the rocker control.
The setting is complete.

To set the time
Press the rocker control up or down until the cursor points to "CURRENT TIME SET"; click the rocker control, then continue from step 5.

5 Click the rocker control.
The CURRENT TIME SET screen appears, and the "SUN" display appears (red).

6 Press the rocker control up or down to select "MON."
Each time you press the rocker control up or down, the day changes consecutively.



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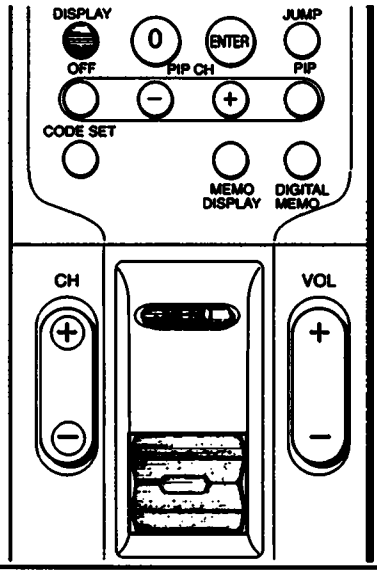
Setting the clock — CURRENT TIME SET

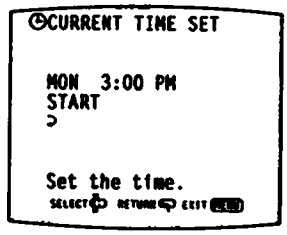
(Cont'd. from prev. page)

Remote Commander (Outer panel)



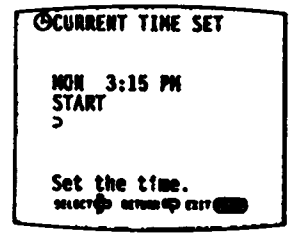
7 Click the rocker control.
The hour and am/pm displays turn red.

8 Press the rocker control up or down to set "3:00PM."
Each time you press the rocker control up or down, the hour changes in sequence beginning with "12:00AM."



9 Click the rocker control.
The minute display turns red.

10 Press the rocker control up or down to select "15" (minutes).
Each time you press the rocker control up or down, the minutes change in sequence.



11 Click the rocker control.
The cursor points to "START."

12 Check the actual time, and click the rocker control to start the clock.
The setting is complete.

To reset the time
Display the CURRENT TIME SET screen and repeat steps 5 – 12.

To display the current time
Press DISPLAY.

To return to the previous menu
Press the rocker control up or down until the cursor points to " ⊃ MENU."
Then click the rocker control.

To return to the main menu
Repeat the above, until you reach the main menu.

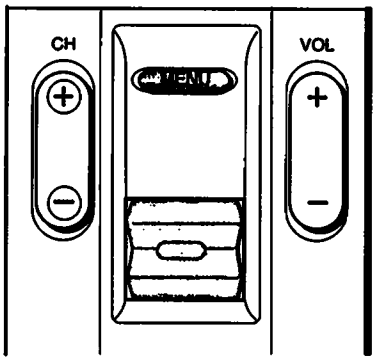
To return to the normal screen.
Press MENU on the Remote Commander.

Setting the ON/OFF TIMER

Follow these instructions to make the program of your choice appear on the screen at a specified time.

Example: Set the timer to turn on the TV every Monday through Friday at 1:30 AM for 3 hours, on channel 8, as PROGRAM 1. (You can set up to three programs.)

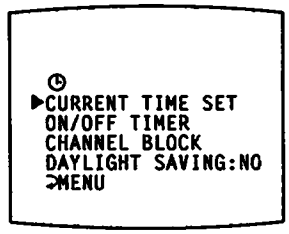
Remote Commander



1 Press MENU.
The main menu appears.

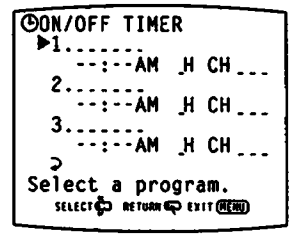
2 Press the rocker control up or down until the cursor points to "TIME."

3 Click the rocker control.
The time menu appears.



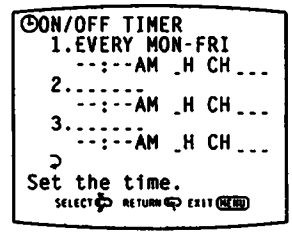
4 Press the rocker control up or down until the cursor points to "ON/OFF TIMER."

5 Click the rocker control.
The ON/OFF TIMER screen appears, and the cursor points to "1."

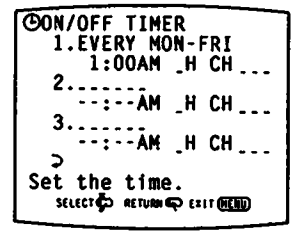


6 To set program 1, click the rocker control.
(To set program 2 or 3, press the rocker control up or down until the cursor points to that program; then click the rocker control.)
The day input space turns red.

7 Press the rocker control up or down to select "EVERY MON-FRI"; then click the rocker control.
Each time you press the rocker control up, the days of the week change as shown in Fig. 1 (p. 63).



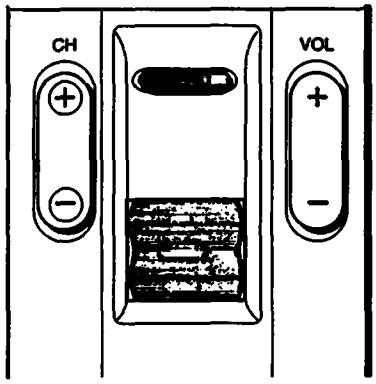
8 Press the rocker control up or down to select "1:00AM"; then click the rocker control.
Each time you press the rocker control up or down, the hour changes in sequence.



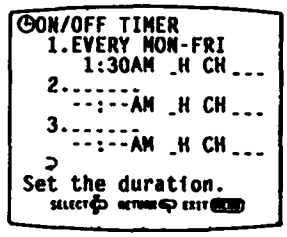
(Continued)

Setting the ON-OFF TIMER (Cont'd from prev. page)

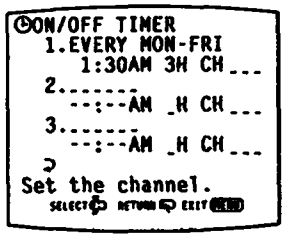
Remote Commander



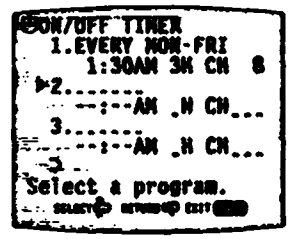
9 Press the rocker control up or down to select "30" (minutes);
Then click the rocker control.
Each time you press the rocker control up or down, the minutes change in sequence.



10 Press the rocker control up or down to select "3" (hour duration); then click the rocker control.
Each time you press the rocker control up or down, the duration changes from "1" – "6" in sequence.



11 Press the rocker control up or down to select "8" (channel); then click the rocker control.
The TIMER indicator lights, indicating that the setting is complete.
Each time you press the rocker control up or down, the channel number changes from 1 – 125 in sequence.



The display "TIMER WILL BE OFF" appears on the screen one minute before the timer duration ends.

To set program 2 or 3.
Click the rocker control and repeat steps 6 – 11.

To erase an ON/OFF TIMER setting
Display the ON/OFF TIMER screen, select the setting you want to erase, and select the underlined spaces for the day setting.
The ON/OFF TIMER setting is erased.

To enter a new ON/OFF TIMER setting
Display the ON/OFF TIMER screen and repeat steps 6 – 11.

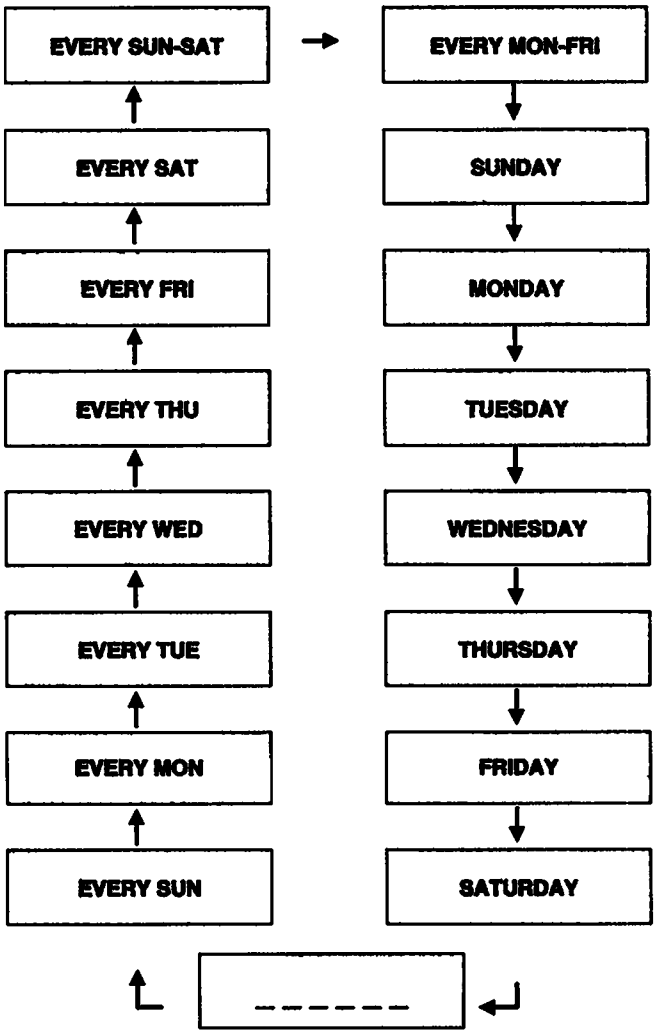
To return to the previous menu
Press the rocker control up or down until the cursor points to " ⊃ MENU."
Then click the rocker control.

To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen.
Press MENU on the Remote Commander.

Note
If you unplug the TV or a power failure occurs, both the clock and timer settings will be erased. Reset the current time; then set the timer.

Fig. 1
Selecting the day(s) of the week
When you press the rocker control up, the days of the week appear in the following order:

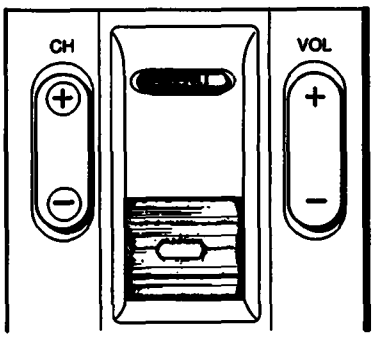


Setting CHANNEL BLOCK

Follow these instructions to prevent a channel from appearing on the screen during the time that you specify. You can use this function to prevent children from watching unsuitable programs.

Example: Set CHANNEL BLOCK every Saturday at 4:30 PM for 1 hour, on Channel 12.

Remote Commander

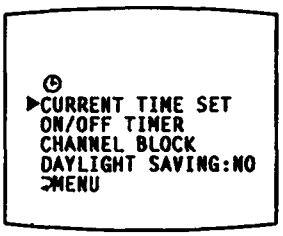


Note
If you have not set the current time, the "CHANNEL BLOCK" display is shaded and cannot be selected.

1 Press MENU.
The main menu appears.

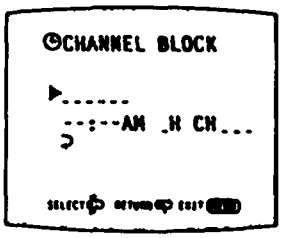
2 Press the rocker control up or down until the cursor points to "TIME."

3 Click the rocker control.
The time menu appears.

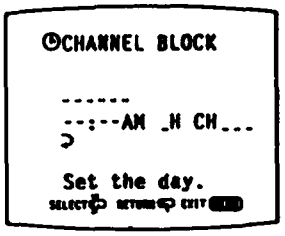


4 Press the rocker control up or down until the cursor points to "CHANNEL BLOCK."

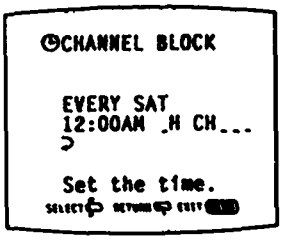
5 Click the rocker control.
The CHANNEL BLOCK screen appears, and the cursor points to the day input space.



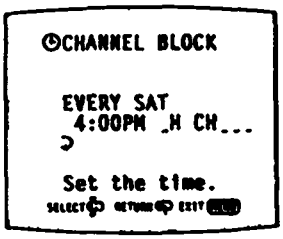
6 Click the rocker control.
The day input space turns red.



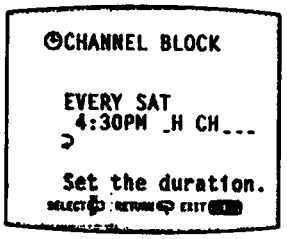
7 Press the rocker control up or down to select "EVERY SAT"; then click the rocker control.
Each time you press the rocker control up or down, the days of the week change as shown in Fig. 1 (p. 63).



8 Press the rocker control up or down to select "4:00PM"; then click the rocker control.
Each time you press the rocker control up or down, the hour changes in sequence.

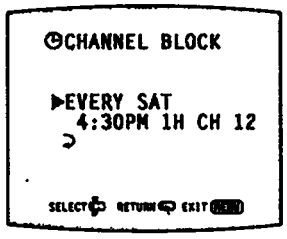


9 Press the rocker control up or down to select ":30" (minutes); then click the rocker control.
Each time you press the rocker control up or down, the minutes change in sequence.

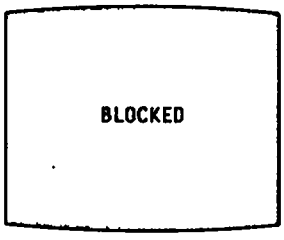


10 Press the rocker control up or down to select "1" (hour duration); then click the rocker control.
Each time you press the rocker control up or down, the duration changes from "1" – "6" in sequence.

11 Press the rocker control up or down to select "12" (channel); then click the rocker control.
The setting is complete.
Each time you press the rocker control up or down, the channel number changes from "1" – "125" in sequence.



At the specified time, "BLOCKED" appears in red on the screen, and the picture of the specified channel is blocked and the sound is muted.



To erase a CHANNEL BLOCK setting
Display the CHANNEL BLOCK screen and select the underlined spaces for the day setting.
The CHANNEL BLOCK setting is erased.

To enter a new CHANNEL BLOCK setting
Display the CHANNEL BLOCK screen and repeat steps 4 – 10. (You can only set one CHANNEL BLOCK at a time.)

To return to the previous menu
Press the rocker control up or down until the cursor points to " ⊃ MENU."
Then click the rocker control.

To return to the main menu
Repeat the above, until you reach the main menu.

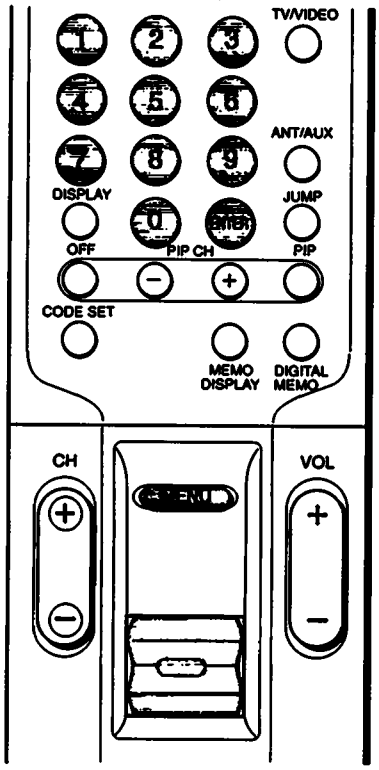
To return to the normal screen.
Press MENU on the Remote Commander.

Note
If the ON/OFF TIMER is set for an overlapping time (pp. 63 – 64), the later time setting takes precedence. For example, if CHANNEL BLOCK is set for 2:00 PM and ON/OFF TIMER is set for 3:00 PM, ON/OFF TIMER will take effect at 3:00 PM.

Setting FAVORITE CHANNEL

By setting FAVORITE CHANNEL, you can select the channels you use most frequently (up to seven channels) simply by clicking the rocker control on the Remote Commander.

Remote Commander (Outer panel)

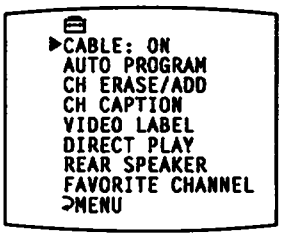


Follow these instructions to set the channels.

1 Press MENU.
The main menu appears.

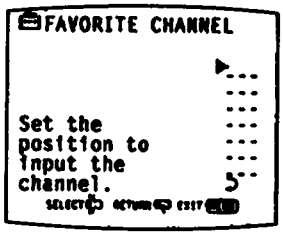
2 Press the rocker control up or down until the cursor points to "SET UP."

3 Click the rocker control.
The set up menu appears.



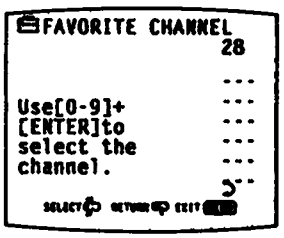
4 Press the rocker control up or down until the cursor points to "FAVORITE CHANNEL."

5 Click the rocker control.
The FAVORITE CHANNEL screen appears, and the cursor points to the first channel position.



6 Press the rocker control up or down to select the channel position; then click the rocker control.

7 Press 0 – 9 and ENTER to set the channel number.



8 Click the rocker control.
The setting is complete.

To set other channels
Repeat steps 6 – 8.

To erase a favorite channel setting
Press the rocker control up or down until the cursor points to the channel number you want to erase; click the rocker control, then press 0 and ENTER.

To reset a favorite channel setting
Display the FAVORITE CHANNEL screen and repeat steps 6 – 8.

To return to the previous menu
Press the rocker control up or down until the cursor points to " ↩ MENU." Then click the rocker control.

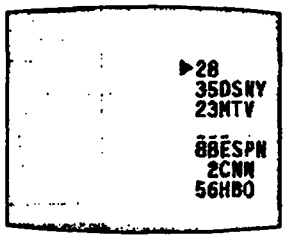
To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen.
Press MENU on the Remote Commander.

Selecting a favorite channel

After setting the channels, follow these instructions to select the channel you want to watch.

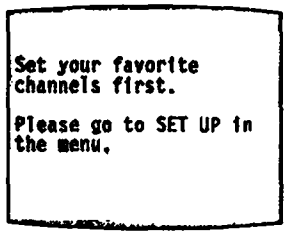
1 Click the rocker control.
The FAVORITE CHANNEL display appears.



Note
If you have set channel captions (pp. 55 – 56), the captions appear with the channel numbers.

2 Press the rocker control up or down to select the channel you want to watch; then click the rocker control.
The channel is selected.

If you click the rocker control on the Remote Commander before setting FAVORITE CHANNEL, this screen appears.



Follow steps 1 – 8 to set your favorite channels, and then make the selection.

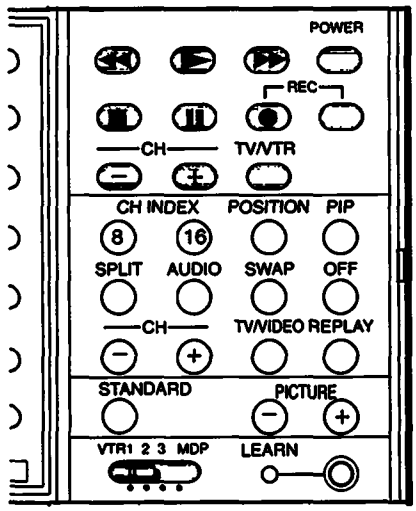
Using the Programmable Remote Commander

You can operate other video equipment (such as VCRs, video disc players and cable boxes) that have an infrared remote detector with this supplied Remote Commander.

Operating Sony video equipment

Follow these instructions to operate Sony video cassette recorders (Beta, 8 mm and VHS) and video disc players (including multi-disc players).

Remote Commander (Inner panel)



1 Set the VTR1-2-3 MDP selector according to the video equipment you want to operate.

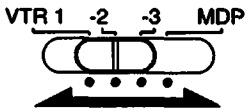


Fig. 2: Video equipment settings

If you want to operate a:	set to:
Beta, ED Beta VCR	VTR 1
8 mm VCR	VTR 2
VHS VCR	VTR 3
Video disc player	MDP

2 Use the video operating buttons to control the connected equipment.

Fig. 3: Operating a VCR (VTR1, 2, 3)	
To turn on or off	Press POWER.
To change channels (when watching TV programs through the VCR's tuner)	Press CH +/–.
To record	Press ● and REC simultaneously.
To play	Press ▶.
To stop	Press ■.
To fast forward	Press ▶▶.
To rewind the tape	Press ◀◀.
To pause	Press II. *To resume normal playback, press again.*
To search the picture forward and backward	Keep pressing ▶▶ or ◀◀ during playback. *To resume normal playback, release the button.*
To change input mode	Press TV/VTR.

Fig. 4: Operating a Video Disc Player (MDP)	
To turn on or off	Press POWER.
To play	Press ▶.
To stop	Press ■.
To pause	Press ❚❚. *To resume normal playback, press again.* **Note** This function is effective only for CAV (standard-play disc). With CLV (extended-play disc), the TV goes off (standby mode) if you press ❚❚.
To search the picture forward and backward	Keep pressing ▶▶ or ◀◀ during playback. *To resume normal playback, release the button.*

Notes

- If the video equipment does not have a certain function, the corresponding button on this Remote Commander will not operate.
- If you set another manufacturer's code to a VTR1-2-3 MDP selector position (pp. 70 – 71), you must also set the Sony code to operate Sony equipment.

Caution

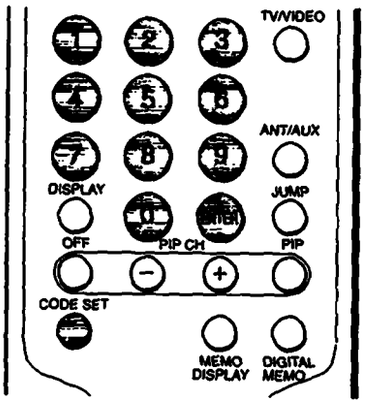
When you replace the batteries, do it within approximately 30 minutes. Otherwise the settings you made under the Pre-Programmed function (pp. 70 – 72) and Learning function (p. 73) may be erased.

Operating non-Sony or Sony video equipment

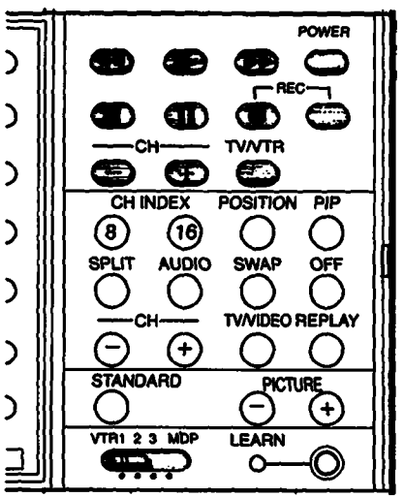
Follow these instructions to set the manufacturer's code, which will enable you to operate non-Sony and Sony video equipment with the pre-programmed Remote Commander.

Example: Operate an RCA video cassette recorder connected to the VIDEO 2 IN jacks.

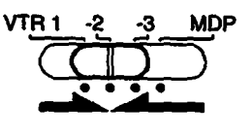
Remote Commander (Outer panel)



(Inner panel)

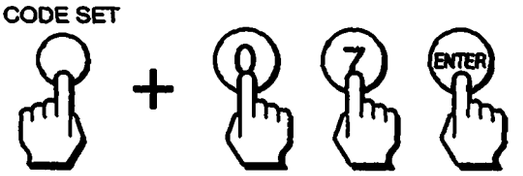


1 Set the VTR1-2-3 MDP selector to VTR2.



Note
To use another manufacturer's equipment besides a Sony VCR, set the selector to a position not being used for your Sony video equipment.

2 While pressing CODE SET, press 0, 7 and ENTER to set RCA's code number. (For manufacturer code numbers, see Figs. 5, 6 and 7 on p. 71.)



A long beep sounds, indicating that the code has been set.

Note
If you press a wrong code, or if the code has not been set, four short beeps sound. Repeat step 3 to set the code.

3 Use the video operating buttons to operate the connected equipment. (see Fig. 3 on p. 68 and Fig. 4 on p. 69.)

Fig. 5: VCR manufacturer code numbers

MANUFACTURER	CODE
SONY	01, 02, 03
CANON	05
EMERSON	22, 30, 33
FISHER	10, 11, 12, 15
FUNAI	29
GENERAL ELECTRIC	05, 08
GOLDSTAR	25
HITACHI	07, 08, 36
JVC	16, 35
MAGNAVOX	05, 06, 09
MITSUBISHI	18, 19, 26, 27
MULTITECH	29
NEC	16, 23, 31
PANASONIC	05, 06
PHILCO	05, 06
PHILIPS	05, 06, 09
QUASAR	05, 06
RCA	07, 08
SAMSUNG	24, 32
SANYO	11, 15
SCOTT	21
SHARP	13, 14
SHINTOM	34
SYLVANIA	05, 06, 09
SYMPHONIC	29
TEKNIKA	28, 29
TOSHIBA	20, 21
TOTE VISION	25
ZENITH	17

Fig. 6: MDP manufacturer code numbers

MANUFACTURER	CODE
SONY	04
KENWOOD	58
MAGNAVOX	52
MARANZ	54
MITSUBISHI	51
PANASONIC	55
PHILIPS	52
PIONEER	51
RCA	51
SANYO	57
SHARP	56
YAMAHA	53

Fig. 7: Sony Equipment and Code Numbers

SONY EQUIPMENT	CODE
Beta, ED Beta VCR	01
8 mm VCR	02
VHS VCR	03
Video disc player	04

Note

In some rare cases, you may not be able to operate your non-Sony video equipment with the supplied Remote Commander. This is because your equipment may use a code that is not provided with this Remote Commander. In this case, please use the equipment's own remote control unit.

For your convenience

Write the manufacturer name and code number for your equipment onto one of the supplied self-adhesive labels and affix the label to the Remote Commander for easy reference.

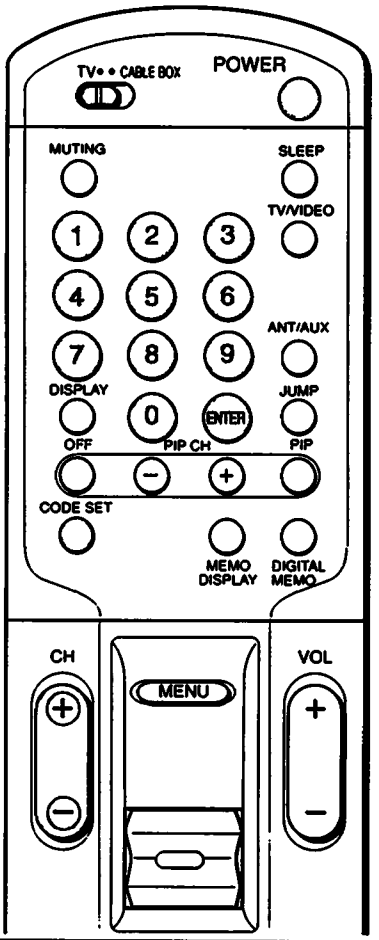
	BRAND	CODE
1		
2		
3		

Operating a cable converter box

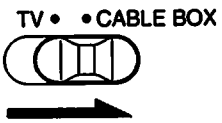
Follow these instructions to set the manufacturer's code, which will enable you to operate a connected cable converter box with the pre-programmed Remote Commander.

Example: Operate a connected Zenith cable converter box.

Remote Commander (Outer panel)



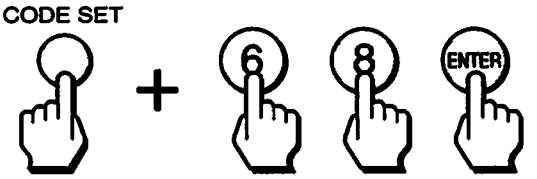
1 Set the TV/CABLE BOX selector to CABLE BOX.



Notes

- If more than one code number is listed, try entering them one by one, until you come to the correct code for your equipment.
- If you enter a new code number, the code number you previously entered at that setting is erased.
- In some rare cases, your equipment may use a code that is not provided with this Remote Commander and you may not be able to operate your cable converter box with the supplied Remote Commander. In this case, use the equipment's own remote control unit.

2 While pressing CODE SET, press 6 and 8 (Zenith's code number — see Fig. 8) and ENTER.

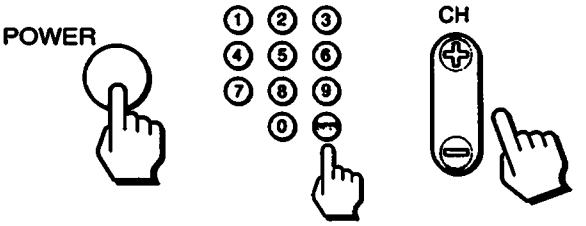


A long beep sounds, indicating that the code has been set.

Note

If you press a wrong code, or if the code has not been set, four short beeps sound. Repeat step 2 to set the code.

3 Use the TV control buttons (POWER, 0 – 9, ENTER and CH +/–) to operate the cable converter box.



To return to the normal screen

Set the TV/CABLE BOX selector to TV; then use the TV control buttons to control the TV.

For more details on operating the cable box

Refer to the operating instructions that come with the cable box.

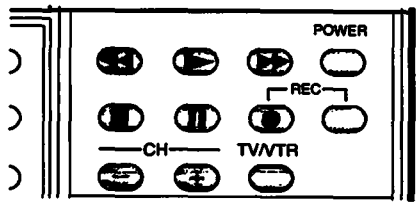
Fig. 8: Cable box manufacturer code numbers

MANUFACTURER	CODE
JERROLD	60, 61, 62, 63, 64, 65
PIONEER	69, 70
SCIENTIFIC ATLANTA	66, 67
TOCOM	71, 72
ZENITH	68

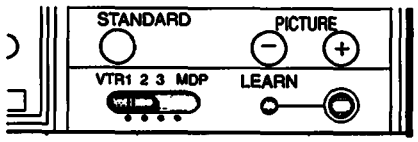
Operating non-Sony or Sony audio and video equipment (Learning function)

Follow these instructions to "teach" any of the programmable buttons to operate the function of another Remote Commander. Use Learning in order to operate non-Sony and Sony audio equipment, and a remote controlled cable converter box or video equipment whose manufacturer code is not listed (Fig. 5, Fig. 6 – p. 71; Fig. 8 – p. 72).

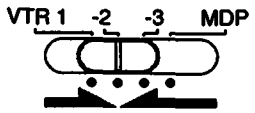
Remote Commander (Inner panel)
Programmable buttons



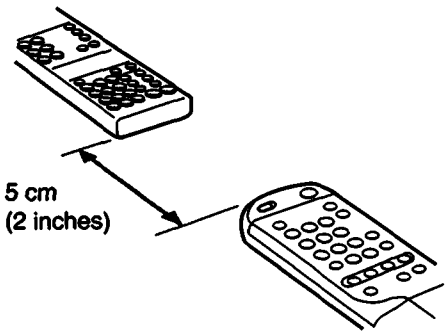
LEARN button and indicator lamp



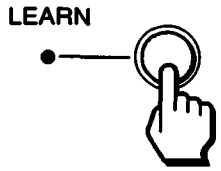
1 Set the VTR1-2-3 MDP selector to VTR3 or MDP. (Learning will not work in VTR1 or VTR2 settings.)



2 Place the supplied Remote Commander head to head with equipment's remote commander, approximately 5 cm (2 inches) apart.



3 Press LEARN.
The LEARN indicator lights up (red).



4 Momentarily press the button of the supplied Remote Commander that you want to learn a function.
The LEARN indicator goes off and lights up again, and a short beep sounds, indicating that the Remote Commander is ready for learning.

The Remote Commander beeps repeatedly if an error has occurred. Repeat this step.

5 Press and hold down the button of the other remote commander, whose function you want to "teach," until the LEARN indicator turns red.
A long beep sounds and the LEARN indicator goes off and lights up again, indicating that learning is complete. If not, repeat steps 4 and 5.

6 Repeat steps 4 and 5 to teach functions to other buttons.

7 Press LEARN.
The LEARN indicator lamp lights up (red), then goes off, indicating that learning is complete.

For accurate learning
Do not move the remote commanders during the learning process.

Notes

- If the memory is full, three short beeps sound and the LEARN indicator flashes off and on. Use learning to re-program a button whose learned function you do not use often; the previously learned function is erased.
- If the other remote commander's signal cannot be learned, a short beep sounds and the LEARN indicator flashes once.
- If you press a button that cannot be used for learning, four short beeps sound and the LEARN indicator flashes four times.

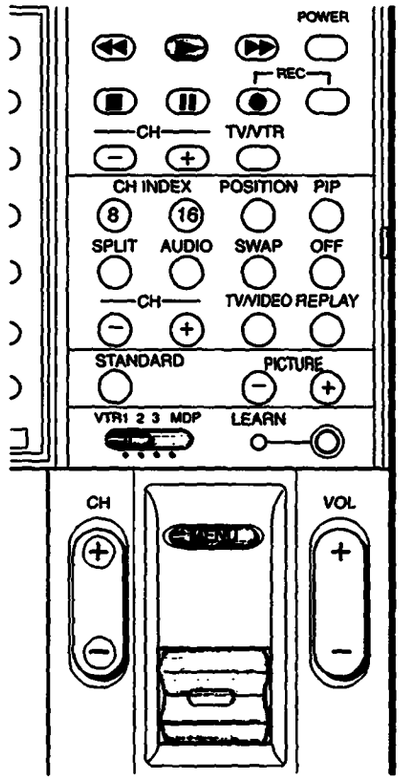
Selecting a VCR mode directly — DIRECT PLAY

Follow these instructions to switch from TV to VCR mode by simply pressing the ▶ (playback) button on the supplied Remote Commander.

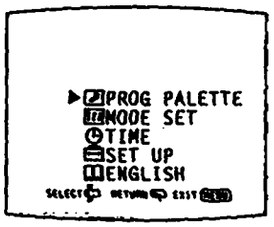
Example: Connect your VCR to the VIDEO 1 IN jacks, and set the VTR1-2-3 MDP selector to VTR2. When you press ▶, the input mode changes to the VCR connected to the VIDEO 1 IN jacks.

After completing the steps below, the VTR selector position is retained in the TV's memory.

Remote Commander (inner panel)

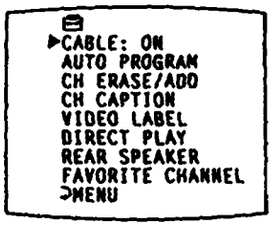


1 Press MENU.
The main menu appears.



2 Press the rocker control up or down until the cursor points to "SET UP."

3 Click the rocker control.
The set up menu appears.

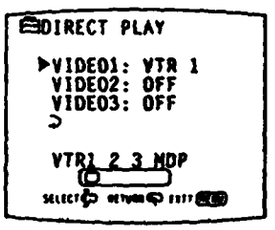


4 Press the rocker control up or down until the cursor points to "DIRECT PLAY."

5 Click the rocker control.
A message screen appears.

Note
This screen reminds you to set the manufacturer's code, if you have not already done so (pp. 70 – 71).

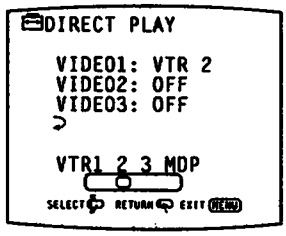
6 Click the rocker control again.
The DIRECT PLAY screen appears.



7 Press the rocker control up or down until the cursor points to the video input mode. (When the video equipment is connected to VIDEO 1 IN, select "VIDEO1.")

8 Click the rocker control.
The mode display turns red.

9 Press the rocker control up or down to select the VTR selector mode you have set on the Remote Commander. (When the VTR1-2-3 MDP selector is set to VTR2, select "VTR 2.")
Each time you press the rocker control up or down, "VTR 1," "VTR 2," "VTR 3," "MDP" and "OFF" appear in sequence.



10 Click the rocker control.
The direct play setting is complete.

To set direct play for other connected video equipment
Repeat steps 7 – 10.

To return to the previous menu
Press the rocker control up or down until the cursor points to " ⊃ MENU."
Then click the rocker control.

To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen.
Press MENU on the Remote Commander.

Appendix

Troubleshooting

Disturbances in picture and sound can often be eliminated by checking the symptoms and following the suggestions listed here. If the problem still cannot be solved, contact your nearest service facility.

Symptom	Possible causes and remedies
No picture (screen not lit), no sound	• Make sure POWER is switched on. • Check the power cord connection. • Check that the TV/VIDEO and VTR1-2-3 MDP controls are set correctly. • Make sure that the TV/CABLE BOX selector is set to TV.
Poor or no picture (screen not lit), good sound	• Adjust the picture using the VIDEO screen (pp. 44 – 47). • Check the antenna/cable connections.
Good picture, no sound	• Press VOLUME + on the TV or VOL + on the Remote Commander. • Press MUTING on the Remote Commander. • Check the MTS setting (p. 52). • Check that the TV/VIDEO and VTR1-2-3 MDP controls are set correctly. • Make sure SPEAKER is set to ON (p. 53).
No color for color programs	• Check the HUE and COLOR settings (pp. 44 – 45).
Snow and noise only	• Check that it is an active or correct channel. • Check the cable setting. • Check the ANT/AUX button setting. • Check antenna/cable connections.
Dotted lines or stripes	This is often caused by local interference (for example, cars, neon signs and hairdryers). Adjust the telescopic aerial for minimum interference.
Double images or ghosts	Reflections from nearby mountains or buildings often cause this problem. Connecting a highly directional outdoor antenna or a CATV cable may improve the picture.
Try another channel. It could be station trouble.	

Specifications

Television system	American TV standards
Channel coverage	VHF: 2 – 13 UHF: 14 – 69 Cable TV: 1 – 125
Picture tube	Microblack™ Trinitron® tube 27-inch picture measured diagonally 29-inch picture tube measured diagonally (KV-27XBR95S) 32-inch picture measured diagonally 34-inch picture tube measured diagonally (KV-32XBR95S)
Antenna	75 ohm external antenna terminal for VHF/UHF
Input jacks	VIDEO 1, 2 and 3 IN S VIDEO IN (4-pin mini DIN) Y: 1 Vp-p, 75-ohms unbalanced, sync negative C: 0.286 Vp-p (Burst signal) 75-ohms Video (phono jacks): 1 Vp-p, 75-ohms unbalanced, sync negative Audio (phono jacks): 500 mVrms (100% modulation) Impedance: 47 kilohms CONTROL S (mini jack) 5 Vp-p
Output jacks	MONITOR OUT S VIDEO MONITOR OUT (4-pin mini DIN) Y: 1 Vp-p, 75-ohms unbalanced, sync negative Video (phono jacks): 1 Vp-p, 75-ohms unbalanced, sync negative Audio (phono jacks): 500 mVrms (100% modulation) Impedance: 10 kilohms CONTROL S (mini jack) 5 Vp-p AUDIO (VAR) OUT (phono jacks) More than 750 mVrms at the maximum volume setting (variable) Impedance: 5 kilohms AUDIO OUT (phono jacks) 900 mVrms (100% modulation) Impedance: 5 kilohms
Speaker output	Front: 13W x 2 Rear: 6.5W x 2 8-ohm minimum
Power requirements	120 V AC, 60 Hz
Power consumption	270 W
Dimensions (w/h/d)	(KV-27XBR95S) w/speakers: 894 x 560 x 532 mm (35¼ x 22⅛ x 21 inches) w/o speakers: 684 x 560 x 532 mm (26⅞ x 22⅛ x 21 inches) (KV-32XBR95S) w/speakers: 1000 x 663.5 x 586 mm (39⅜ x 26⅛ x 23⅛ inches) w/o speakers: 794 x 663.5 x 586 mm (31⅜ x 26⅛ x 23⅛ inches) Speaker (1): 100 x 480 x 305 mm (4 x 19 x 12⅛ inches)
Weight	(KV-27XBR95S) w/speakers: 62.6 kg (138 lb ⅛ oz) w/o speakers: 52 kg (114 lb 11 oz) (KV-32XBR95S) w/speakers: 86.2 kg (190 lb 1 oz) w/o speakers: 75.6 kg (166 lb 11 oz) Speaker (1): 5 kg (11 lb 1 oz)
Supplied accessories	Remote Commander RM-Y114 (1) with 2 size AA (R6) EVEREADY batteries Detachable speaker parts – Speaker boxes (L/R) – Speaker box brackets (L/R) – Protective pads (8) – Bolts (rubber padded) (8) – Bolts (non-rubber padded) (8) – Speaker cords (2)
Optional accessories	U/V mixer EAC-66 Connecting cable RK-74A VMC-810S/820S YC-15V/30V

Design and specifications are subject to change without notice.

(●) SOUND RETRIEVAL SYSTEM

The (●) Sound Retrieval System is manufactured by Sony Corporation under license from the Hughes Aircraft Company, a subsidiary of GM Hughes Electronics. It is covered by U.S. Patent No. 4,748,669. Other U.S. and foreign patents pending.

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